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Kabinakagami Lake Area High Density Regional Lake Sediment and Water Geochemical Survey, Northern Ontario

by

J.E. Jackson

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Abstract

The Ontario Geological Survey conducted a helicopter supported regional high density lake sediment and water geochemical survey of the Kabinakagami Lake area of northern Ontario during the summer of 2000. The survey area is located approximately 100 km north of Wawa, Ontario. Lake sediment samples were collected at 950 sites and lake water samples were collected at 1035 sample sites. The lake sediment and water samples were analyzed for a suite of more than 50 elements. Preliminary interpretation of the geochemical patterns has outlined 17 anomalous areas. The anomalous elements include; Au, Ni, Cu, Co, Cr, Zn, Cd, Ag and Mo. The anomalous areas have been loosely ranked in order of their exploration interest and as of June 2002, most of the areas were open for staking. Digital geochemical data for this report is available separately as Miscellaneous Release Data 110 (MRD-110).

Introduction

A helicopter supported regional lake sediment and water geochemical survey of the Kabinakagami Lake area was conducted by staff of the Ontario Geological Survey from June 15 to July 5, 2000. Kabinakagami Lake is located approximately 100 km north of Wawa, Ontario (Figure 1). The survey covered the western portion of the Kabinakagami Lake greenstone belt located between Hornepayne and White River, Ontario. Samples were collected from a 3700 km^2 region that wholly encompasses the area represented on the National Topographic System (NTS) map sheet 42 C/16 and portions of NTS sheets 42 F/1, 42 F/2, 42 C/9, 42 C/10 and 42 C/15. Lake sediment and/or water samples were collected at 1035 sites for an average density of 1 sample per 3.5 km^2. The Kabinakagami Lake survey is part of a 2 year project to sample the Kabinakagami and the Dayohessarah greenstone belts.

A recent lake sediment and water survey has been completed over the eastern portion of the Kabinakagami greenstone belt extending from Walls to Champlain township (Ontario Geological Survey 2000). The region has also been covered by a low density national geochemical reconnaissance (NGR) lake sediment and water program completed during the late 1980s by the Geological Survey of Canada (Friske et al. 1991). The Geological Survey of Canada (GSC) survey covered a large area of northern Ontario at an average density of 1 sample per 13 km^2.

Bedrock Geology

The Kabinakagami greenstone belt is part of the Wawa Subprovince and is an arcuate assemblage of dominantly mafic metavolcanic rocks with subordinate metasedimentary rocks and sparse occurrences of intermediate to felsic metavolcanic rocks (Williams et al. 1991). The greenstone belt is approximately 100 km long and extends from Champlain Township in the east to Nameigos Township in the west (Figure 2). The belt ranges from 1 to 6 km wide with the widest section occurring in the Kabinakagami Lake area (Wilson 1993). The supracrustal rocks are strongly sheared, steeply dipping and range from upper greenschist to middle amphibolite grade (Wilson 1989).

The Puskuta Lake shear zone separates the east to southeast trending northern portion of the greenstone belt from the northeast trending southern portion of the belt. The shear zone is at least 60 km long, 1 to 2 km wide and is characterised by intense ductile deformation followed by an episode of brittle faulting (Leclair 1990). The northern part of the greenstone belt in Hawkins and Walls townships contains highly deformed metavolcanic rocks, rare metasedimentary rocks and numerous quartz-feldspar dikes and sills (Wilson 1993). Gold occurrences in the Hawkins Township area are hosted in quartz-carbonate veins within the Puskuta Lake shear zone. A past producer, (the Shenango gold mine), operated from 1935 to 1941.

In the Kabinakagami Lake area the supracrustal units contain more metasedimentary rocks, less prominent quartz-feldspar dikes and sills and moderate shearing and deformation. The main structures in the southern part of the belt are a northeast trending syncline with the axis trending under Kabinakagami Lake and the northeast trending Bear Creek fault zone (Siragusa 1977).

Figure 1. Location map of the Kabinakagami Lake area lake sediment and water geochemical survey

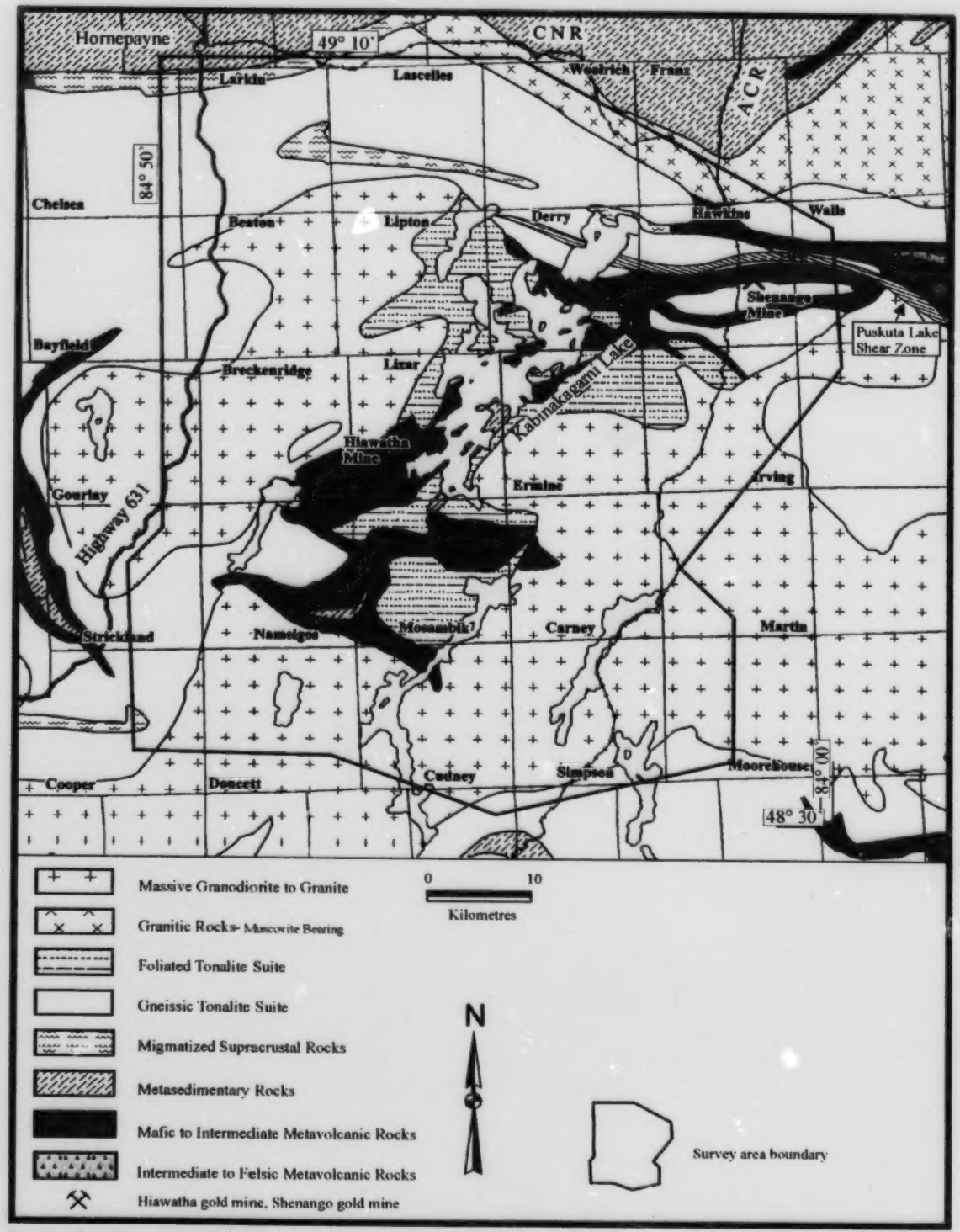

Figure 2. Generalized bedrock geology of the Kabinakagami Lake area (after Ontario Geological Survey 1991)

The Bear Creek fault is a zone of high strain from 50 m to 100 m wide located to the northwest of the Hiawatha gold mine. The fault zone contains numerous, narrow, parallel shear zones with silica and chlorite alteration. The high strain zone of the Bear Creek fault hosts all of the known gold occurrences in the Lizar Township area (Wilson 1993).

The greatest economic mineral potential of the Kabinakagami greenstone belt is related to gold mineralization. Gold mineralization is found in both local and regional shear zones within deformed metavolcanic and felsic intrusive rocks. Silica and chlorite alteration is common in the Kabinakagami Lake area while silica and carbonate alteration is prominent along the Puskuta Lake shear zone. Historical gold production in the Kabinakagami greenstone belt is known from the Shenango and Hiawatha gold mines. Both mines were low grade and low tonnage operations.

Physiography and Quaternary Geology

Most of the topography in the area is of moderate relief with much of the terrain being bedrock controlled (Gartner and McQuay 1980). The northern portion of the survey area is a dominantly flat, swampy terrain with elevations ranging from 320 to 350 m above sea level. The terrain is more rugged in the southern portion of the survey area with elevations ranging from 396 to 500 m above sea level (Siragusa 1978). Numerous small, narrow lakes in the southern portion of the area occupy valleys along dominant northeast and northwest trending structures in the granitic basement rocks.

A regional compilation of the Quaternary geology (Barnett et al. 1991) indicates that most of the bedrock in the southern portion of the study area is covered by a thin veneer of discontinuous drift (Figure 3). Quaternary deposits cover much of the bedrock in the northern part of study area and consist predominantly of silty to sandy till with some lime-rich clays (Siragusa 1977, 1978). Glaciofluvial outwash and ice-contact deposits are the dominant landforms in the northern part of the survey area. The outwash is mainly sandy and occurs with eskers, ground moraine and as a thin veneer over bedrock (Gartner and McQuay 1980). Esker deposits generally trend in a south to southwestern direction and are composed mainly of sand with some gravel. The largest esker in the area extends for about 20 km along the eastern shore of Kabinakagami Lake. Glaciolacustrine fine sand, silt and clay occur in scattered locations throughout the map area. These sediments were deposited in glacial Lake Barlow-Ojibway (Gartner and McQuay 1980).

Sampling Methods

Organic lake sediment samples were collected from a helicopter float using the Ontario Geological Survey (OGS) designed gravity corer. On average, 20 lakes were sampled per hour of helicopter flying time. In order to avoid anthropogenic influences and water/sediment interface effects (i.e., increased Mn due to anoxic conditions that result in secondary accumulation of base metals), only deep sediment (>20 cm below the sediment surface) was collected. This sediment better reflects the effects of natural geochemical inputs that may be related to local geology.

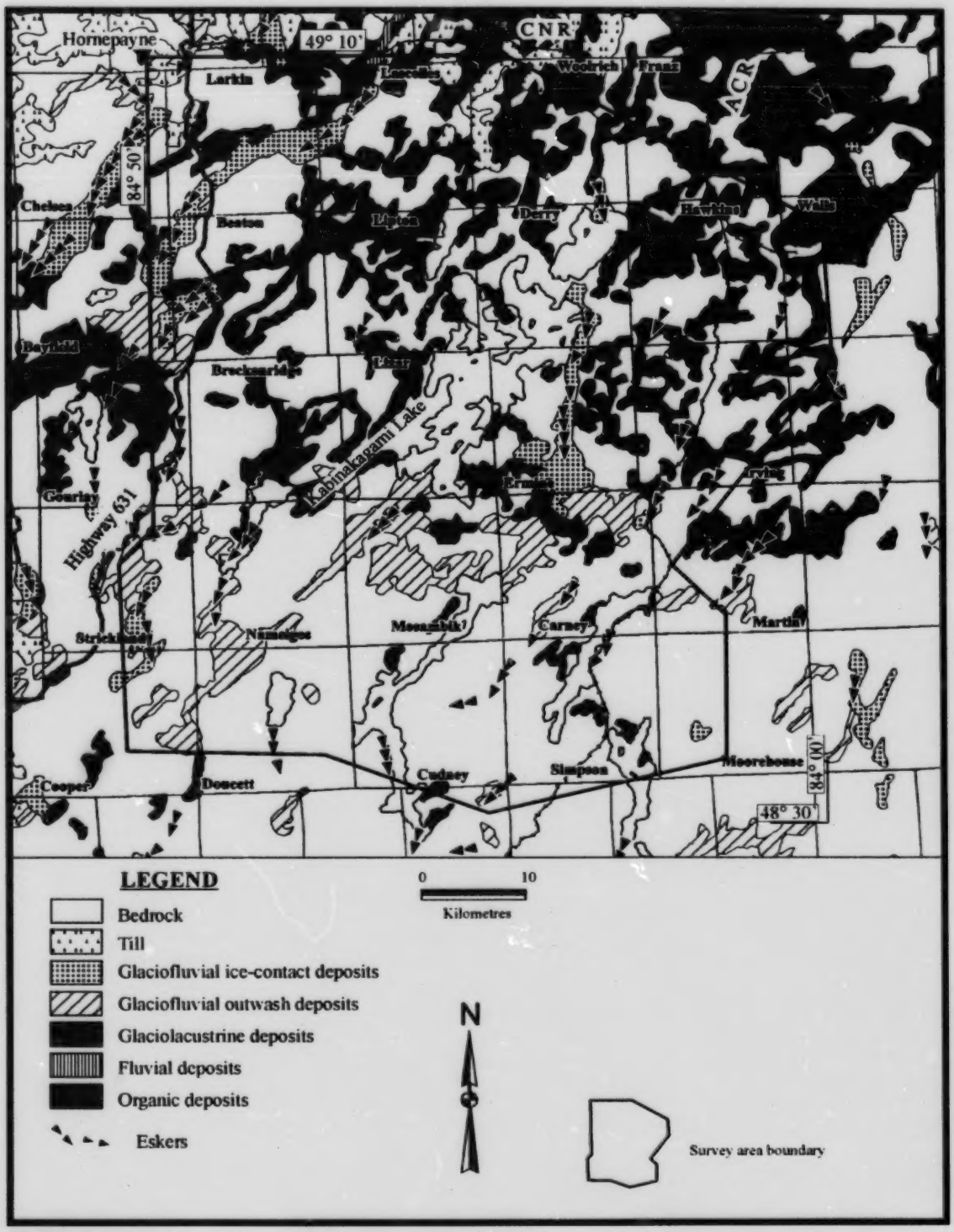

Figure 3. Generalized Quaternary geology of the Kabinakagami Lake area (after Barnett et al. 1991)

Lake water samples were collected at a depth of 0.5 m from shallow lakes (<3 m deep) and at a depth of 2 m from deep lakes (>3 m). A semi-automated water sampling apparatus, developed by the OGS, was utilized for water collection. The apparatus consists of a submersible pump, a flow cell (for measurement of parameters such as pH, conductivity, oxidation-reduction potential and dissolved oxygen), a sample bottle tray and various hoses and pinch valves. Water is pumped from the lake and allowed to purge the sampling system prior to the collection of a water sample and the recording of water quality parameters. Water samples were kept cool after collection and processed (filtered and acidified) within 24 hours of collection.

A GPS receiver was utilized to record accurate sample site positions. A customized database application operated on a pen based computer was used to record sample descriptions and observations. Data from the water quality probe was monitored and logged using a hand held recording unit.

Sample Preparation and Analytical Methods

Lake sediment samples were placed in breathable fabric bags and allowed to partially air dry prior to shipment to the laboratory. The samples were then freeze dried (to retain volatile elements), partially pulverized in a ceramic ring and puck pulverizer and sieved to obtain the -80 mesh (<177 µm) size fraction. A total of 950 lake sediment samples were submitted for analysis.

Laboratory analysis included nitric-aqua regia digestion of 1 gm of sample pulp followed by inductively coupled plasma-mass spectrometry (ICP-MS) and inductively coupled plasma-optical emission spectroscopy (ICP-OES) to determine approximately 50 trace elements. Nitric acid-aqua regia digestion attacks all sample matrix constituents, except for silicate minerals, and is therefore considered a nonselective, relatively strong partial extractant.

Approximately 10 gm of sample pulp were pressed into briquettes and analyzed by instrumental neutron activation analysis (INAA) for Au, As and a suite of 32 other elements. Enough material from the original 950 samples was available to analyze 914 samples by this method.

Laboratory analysis for Pt, Pd plus Au was accomplished by lead fire assay followed by an ICP-MS (FA) finish on 15 g of material. There was sufficient pulp left over to analyze 520 samples by the FA technique.

Quality control was monitored through the use of sample pulp duplicates and certified reference materials. Loss-on-ignition (LOI) was determined at 500°C, using an automated furnace gravimetric technique.

Water samples were passed through 0.45 µm syringe filters and acidified to 1% ultrapure nitric acid within 24 hours of collection. Analysis of water includes direct aspiration ICP-MS to determine approximately 50 elements including major cation and anion species. Quality of the analyses was monitored through the use of sample duplicates and certified reference standard SLRS-4. In addition, several parameters were recorded on a water analyzer (YSI) to assess the quality of the water samples collected.

Quality Control Results

LAKE SEDIMENTS

Every 10th sediment sample submitted was a quality control (QC) sample. The QC sediment samples consisted of field duplicates, analytical (pulp) duplicates, certified reference standards (CRS) and an internal (OGS collected) bulk standard. Field (method) duplicates were inserted with a frequency of 1 in 40. Analytical pulp duplicates were prepared by halving 1 in 40 of the dried sample pulps and inserting them into the sample sequence. CANMET certified reference standards (LKSD 1 and 4, Lynch 1990) and an OGS internal standard were also inserted as dried pulps between the sample preparation and analysis stages. Every 20th sample was either a CRS or an OGS internal standard. These 3 standards were inserted alternately so that each was repeated every 60th sample.

Analytical precision for each element was determined by plotting duplicate data on an X-Y chart and determining the variation of 95% of the data from a 1:1 ratio. Accuracy was determined by plotting the sequential values returned for certified reference standards inserted in the batch against a vertical scale of concentration and comparing this with the "provisional values" (Lynch 1990) for the standards. The mean and standard deviation of values returned for each standard were also compared with the provisional values.

Table 1 contains a summary of the elements analyzed from the lake sediments in the study area. The statistics include median, range, coefficients of variation for the certified reference material and the estimates of precision obtained from sample duplicates. A complete listing of all the geochemical data used to prepare this table is contained in the Miscellaneous Release-Data 110 (MRD-110), published separately from this report.

The overall quality of the lake sediment data is very good. The elements summarized in Table 1 are the best analytical results obtained from the various analytical methods.

Quality control assessment of the ICP-MS data indicated minor problems with Ga, Hg, Sn and Zr. These elements should be treated with some caution. All other elements presented in Table 1 that were analyzed by ICP-MS and ICP-OES are of good to excellent quality.

Assessment of the INAA data indicated minor QC problems with Se and Ta. Some caution should be used with these elements. Quality control assessment of the Au (INAA) data also indicated some areas of analytical drift, but the overall precision of the data (±3 ppb) is fairly good and typical for this method.

The overall quality of the FA data is acceptable but some caution should be used. The values for Au, Pt and Pd obtained from the survey area are quite low and close to the detection limit for all elements. The highest values for Pt and Pd are 5.9 and 4 ppb, respectively, and may represent background noise rather than anomalous concentrations, as many of these values have no corroborating PGE or base metal anomalies. Assessment of the accuracy of the Pt data indicates that samples between site 23 and 68 may contain elevated values. Sample site 38 returned the highest Pt value of 5.9 ppb and should be treated with extreme caution. Similar accuracy problems were detected in the Pd data from sample site numbers 91 to 235, 586 to 613, 739 to 743, near 811 and near 856. Sample numbers within these intervals may contain elevated Pd values. Quality control assessment of the Au data indicated only minor and quite acceptable analytical drift. Only 3 Au values above 4 ppb were obtained by this method and none of these were corroborated by the INAA method. The lack of corroboration in elevated gold values between

Element	Analytical Method	Units	MDL	Lake Sediment (n=950)			Estimated Precision	LKSD-1 Reference Standard (n=20)			LKSD-4 Reference Standard (n=20)		
				Median	Range			Certified Value	Mean Q.C. Result	Coefficient of variation (%)	Certified Value	Mean Q.C. Result	Coefficient of variation (%)
					Min	Max							
Ag	ICP-MS	pp.n	0.02	0.05	<0.02	0.34	±0.09	0.6	0.56	15.7	0.2	0.21	17.3
Al	ICP-OES	ppm	30	4301	181	32699	±1121	41300	3859	6.0	31200	11672	4.1
As	INAA	ppm	1	3	<1	56	±1	40	40	6.3	16	17	3.5
Au	INAA	ppb	1	<1	<1	19	±3	5	4	54.2	2	3	60.3
Au	FA	ppb	0.9	<0.9	<0.9	96.2	±1.1	5	2.4	66.0	2	1.2	41.1
Ba	ICP-MS	ppm	1	58	11	246	±6	430	94	2.7	330	139	2.5
Be	ICP-MS	ppm	0.1	0.2	<0.1	1.8	±0.17	1.1	0.1	52.6	1	0.4	15.0
Br	INAA	ppm	1	34	4	140	±8	11	11	6.3	49	49	6.2
Ca	ICP-OES	ppm	15	13696	1270	321406	±7967	77200	69147	2.9	12900	9397	2.7
Cd	ICP-MS	ppm	0.05	0.47	0.06	1.64	±0.08	1.2	1.60	4.5	1.9	2.10	3.3
Ce	ICP-MS	ppm	0.03	21.76	0.63	365.1	±7.16	27	16.99	8.0	48	38.26	3.9
Co	ICP-MS	ppm	0.05	2.95	0.53	25.98	±0.7	9	7.78	5.8	11	8.77	4.3
Cr	ICP-OES	ppm	4	14	<4	59	±3	12	13	9.2	21	21	4.9
Cs	ICP-MS	ppm	0.01	0.55	0.04	5.38	±0.17	1.5	0.50	3.4	1.7	1.06	5.4
Cu	ICP-OES	ppm	5	18	<5	356	±2	44	42	2.9	30	30	2.7
Dy	ICP-MS	ppm	0.05	1.11	<0.05	10.30	±0.17	3.4	1.67	5.0	3.7	2.87	3.0
Er	ICP-MS	ppm	0.01	0.56	0.02	5.02	±0.09	-	0.93	5.7	-	1.65	3.1
Eu	ICP-MS	ppm	0.05	0.37	<0.05	3.76	±0.1	0.9	0.47	5.6	1.1	0.89	4.9
Fe	ICP-OES	ppm	5	5896	810	94010	±1306	18000	19170	3.3	27000	26502	2.7
Ga	ICP-MS	ppm	0.05	1.14	0.14	7.34	±2.23	-	1.97	10.0	-	3.60	15.4
Gd	ICP-MS	ppm	0.05	2.06	0.07	18.22	±2.1	-	2.47	9.9	-	4.41	14.3
Hf	ICP-MS	ppm	0.05	0.06	<0.05	1.17	±0.04	3.6	0.03	37.8	2.8	0.03	-
Hg	ICP-MS	ppm	0.05	0.08	<0.05	0.42	±0.09	-	0.13	34.4	-	0.19	10.0
Ho	ICP-MS	ppm	0.01	0.21	<0.01	1.86	±0.07	-	0.32	7.8	-	0.56	6.3
K	ICP-OES	ppm	100	257	<100	2829	±193	9100	378	6.9	6600	818	6.7
La	ICP-MS	ppm	0.05	12.14	0.35	350.00	±2.99	16	10.34	5.0	26	21.01	3.3
Li	ICP-MS	ppm	0.5	3.6	<0.5	32.8	±2.7	7	4.4	13.7	12	9.0	7.6
Lu	ICP-MS	ppm	0.005	0.070	<0.005	0.640	±0.03	0.4	0.13	10.3	0.5	0.23	9.4
Mg	ICP-OES	ppm	20	2090	474	34547	±614	10300	6302	3.6	5400	3834	3.5
Mn	ICP-OES	ppm	1	79	12	2307	±19	460	416	3.5	430	412	3.1
Mo	ICP-MS	ppm	0.1	1.5	<0.1	16.8	±0.2	12	10.0	3.3	2	1.8	5.7
Na	ICP-OES	ppm	10	70	25	1030	±19	14800	249	11.8	5200	186	8.0
Nb	ICP-MS	ppm	0.05	0.56	<0.05	2.80	±0.4	7	0.68	23.9	9	1.17	8.1
Nd	ICP-MS	ppm	0.08	11.05	0.26	159.91	±2.04	16	11.77	4.8	25	21.79	3.1
Ni	ICP-OES	ppm	5	13	<5	46	±2	11	15	6.5	32	33	3.4
P	ICP-OES	ppm	50	570	156	3526	±69	900	743	3.8	1300	1319	3.2
Pb	ICP-MS	ppm	0.05	3.77	0.42	41.95	±1.25	84	81.69	10.5	93	93.53	10.8
Pd	FA	ppb	0.9	<0.9	<0.9	4.0	±1.2	-	<0.9	-	-	<0.9	54.8
Pr	ICP-MS	ppm	0.05	2.96	0.08	44.14	±0.88	-	2.79	5.6	-	5.54	4.6
Pt	FA	ppb	0.5	<0.5	<0.5	5.9	±0.5	-	<0.5	37.4	-	<0.5	99.5
Rb	ICP-MS	ppm	0.05	4.12	0.46	38.92	±2.5	24	3.51	7.5	28	9.94	6.7
S	ICP-OES	ppm	30	4062	531	48454	±413	15700	15886	2.7	9900	9809	2.9
Sb	ICP-MS	ppm	0.05	0.08	<0.05	0.74	±0.04	1.2	0.63	6.6	1.5	1.22	3.6
Sc	ICP-MS	ppm	0.1	1.5	0.2	9.2	±0.54	9	2.5	11.9	7	3.8	5.6
Se	INAA	ppm	2	<2	<2	5	±1	-	<2	40.7	-	2	55.2
Sm	ICP-MS	ppm	0.05	1.97	0.06	21.22	±0.41	4	2.44	4.0	5	4.15	3.0
Sn	ICP-MS	ppm	0.5	<0.5	<0.5	1.8	±0.3	16	3.1	22.5	5	3.3	3.5
Sr	ICP-OES	ppm	1	21	7	451	±2	250	61.0	2.7	110	38.2	2.8
Ta	INAA	ppm	0.5	<0.5	<0.5	1.0	±0.5	0.3	<0.5	28.0	0.4	<0.5	-
Tb	ICP-MS	ppm	0.05	0.22	<0.05	2.05	±0.11	0.6	0.31	7.9	1.2	0.53	7.6
Th	ICP-MS	ppm	0.05	1.24	<0.05	12.34	±1.06	2.2	1.29	8.5	5.1	1.82	6.4
Ti	ICP-OES	ppm	3	113	6	989	±85	3010	294	12.4	2270	408	7.9
Tl	ICP-MS	ppm	0.05	0.10	<0.05	2.03	±0.03	-	0.22	8.9	-	0.43	5.1
Tm	ICP-MS	ppm	0.005	0.070	<0.005	0.700	±0.03	-	0.13	12.7	-	0.23	8.8
U	ICP-MS	ppm	0.05	1.90	0.11	195.53	±1.2	9.7	8.39	6.2	31	29.38	6.6
V	ICP-OES	ppm	5	11	<5	185	±2	27	20	5.3	32	31	3.5
W	ICP-MS	ppm	0.05	0.07	<0.05	1.60	±0.17	<4	0.61	20.2	<4	0.24	9.4
Y	ICP-MS	ppm	0.05	5.95	0.25	51.61	±1	19	10.02	5.3	23	16.5	3.8
Yb	ICP-MS	ppm	0.05	0.48	<0.05	4.26	±0.14	2	0.84	5.2	2	1.53	4.4
Zn	ICP-OES	ppm	2	55	8	174	±4	337	317	3.3	189	185	2.2
Zr	ICP-MS	ppm	0.1	2.8	<0.1	76.1	±3.1	134	1.8	50.6	105	1	48.8
LOI	Grav.	%	0.01	56.63	2.40	92.35	±0.75	23.5	23.40	0.7	40.8	41.56	0.5

Notes:

1. ICP-MS= Inductively Coupled Plasma Mass Spectroscopy. (aqua-regia digestion)
2. ICP-OES= Inductively Coupled Plasma Optical Emission Spectroscopy. (aqua-regia digestion)
3. INNA= Instrumental neutron activation analysis.
4. FA= Lead fire assay with ICP-MS finish
5. MDL=method detection limit.
6. Estimated precision at 95% confidence level; ICP-MS, ICP-OES, INAA and FA elements based on results of 58 duplicate pairs.
7. Q.C. Result = Average value obtained, Kabinakagami Lake area dataset.
8. Coefficient of variation at one standard deviation (68% confidence Level)
9. LKSD-1 and LKSD-4 are Canmet certified reference materials; For ICP elements, quoted reference values for Ag, Cd, Co, Cr, Cu, Fe, Mn, Mo, Ni, Pb, Sb, V, Zn determined by partial digestion; all other ICP elements determined with total digestion. For INAA elements, quoted reference values for LKSD-1 and LKSD-4 are from total digestion methods.

Table 1: Kabinakagami Lake area, lake sediment dataset, summary of elements analyzed by ICP, INAA, FA and quality control data, including estimates of precision.

the 2 analytical methods should not be considered any less reliable than a direct correlation of values, since the reproducibility of gold can be somewhat problematic.

LAKE WATER

Analytical precision and accuracy of the water data was assessed using Saint Lawrence River Standard reference material (SLRS-4) and sample duplicates randomly inserted into the sample series. Table 2 contains some basic statistical data listing the median, range, estimated precision and coefficient of variation for the SLRS-4 for each of the elements analyzed.

The overall quality of the analytical results for the lake water dataset is good. The quality control methods detected problems with the accuracy and precision of some of the elements analyzed in the lake water dataset. Elements containing minor quality control problems and analytical drift include Cd, Co, Cr, Ga, Hg, Sc, Sn, Tl, V and Zn. All of these elements should be treated with some caution. Erroneously elevated values were detected in Cr from site 433 to 450. These values have been stripped from the dataset. All other elements are of good to excellent quality.

Geochemical Data Interpretation

Factors to consider when assessing the possible significance of an anomaly are as follows:

1) Correlation with geology

In mineral exploration, correlation with geology is the most important factor when assessing the significance of a surficial geochemical anomaly, however, its relative importance declines as the known level of detail of the geology declines.

2) Multi-site anomalies

Multi-site anomalies provide separate verification of the "anomalousness" of a given area and provide some insurance against non-systematic errors in sample quality, collection, preparation or analysis. However, since samples are collected, prepared and analysed in sequence, a uniform and numerically sequential anomaly may be the result of a systematic analytical or sample preparation error. This might be expected to produce an apparent geographic grouping of fairly uniform concentrations in one, or possibly several, elements. As mentioned above, every effort has been made to detect this kind of problem but the user is reminded to consider all available data when assessing the importance of an anomaly.

3) Multi-element anomalies

Multi-element anomalies with geologically reasonable elemental assemblages are useful in assessing the importance of many anomalies. For example, Pt and Pd, which are relatively immobile in the surficial environment compared to base metals such as Cu, Cr, Ni, Pb and Zn, would not be expected to be found in anomalous levels in a lake sediment without an accompanying base metal signature. Gold on the other hand, can occur in quartz vein deposits with little or no associated base metals; therefore, a gold anomaly by itself can be significant. A gold anomaly with an associated base metal signature, however, may be even more significant. However, certain multi-element anomalies (e.g., Mo + Zn) can sometimes

Element	Analytical Method	Units	MDL	Lake Water (n=1055) Median	Range Min	Range Max	Estimated Precision	SLRS-4 Reference Standard (n=23) Certified Value	Mean Q.C. Result	Coefficient of variation (%)
Ag	ICP-MS	ppb	0.008	0.020	<0.008	0.750	±0.15	-	<0.008	38.2
Al	ICP-MS	ppb	3.6	9.8	<3.6	300.0	±14.5	54	50.1	10.9
Ba	ICP-MS	ppb	0.01	6.20	0.20	20.40	±1.5	12.2	13.1	6.1
Be	ICP-MS	ppb	0.004	<0.004	<0.004	0.07	±0.008	-	0.009	38.2
Ca	ICP-MS	ppb	12	17929	275	57341	±8918	6200	5868	9.3
Cd	ICP-MS	ppb	0.004	0.007	<0.004	1.025	±0.021	0.012	0.014	16.2
Ce	ICP-MS	ppb	0.002	0.047	0.003	3.897	±0.107	-	0.373	6.4
Co	ICP-MS	ppb	0.008	0.020	<0.008	2.570	±0.016	0.033	0.034	17.2
Cr	ICP-MS	ppb	0.6	<0.6	<0.6	1.4	-	0.33	<0.6	-
Cs	ICP-MS	ppb	0.001	0.003	0.005	0.378	±0.002	-	0.007	9.7
Cu	ICP-MS	ppb	0.1	0.7	<0.1	38.1	±2.6	1.81	2.3	29.0
Dy	ICP-MS	ppb	0.001	0.004	<0.001	0.165	±0.003	-	0.024	9.6
Er	ICP-MS	ppb	0.001	0.003	<0.001	0.095	±0.003	-	0.013	9.5
Eu	ICP-MS	ppb	0.001	0.003	<0.001	0.062	±0.002	-	0.010	9.9
Fe	ICP-MS	ppb	48	61	<48	413	±39	103	68	11.2
Ga	ICP-MS	ppb	0.002	0.200	<0.002	0.500	±0.1	-	0.313	17.5
Gd	ICP-MS	ppb	0.001	0.007	<0.001	0.327	±0.008	-	0.043	8.5
Ho	ICP-MS	ppb	0.001	0.001	<0.001	0.032	±0.001	-	0.005	8.5
La	ICP-MS	ppb	0.001	0.037	0.002	3.021	±0.098	-	0.295	6.3
Li	ICP-MS	ppb	0.009	0.570	0.020	2.950	±0.31	-	0.542	15.7
Lu	ICP-MS	ppb	0.001	<0.001	<0.001	0.014	±0.001	-	0.002	15.1
Mg	ICP-MS	ppb	1.3	4000.0	89.0	4000.0	±779	1600	1680	11.5
Mn	ICP-MS	ppb	0.06	1.40	0.10	30.00	±1.3	3.37	3.1	10.6
Mo	ICP-MS	ppb	0.05	0.10	<0.05	0.80	±0.08	0.21	0.2	-
Nd	ICP-MS	ppb	0.001	0.036	0.002	2.448	±0.056	-	0.273	5.9
Ni	ICP-MS	ppb	0.2	<0.2	<0.2	5.8	±1.3	0.67	0.7	16.3
Pb	ICP-MS	ppb	0.06	<0.06	<0.06	5.50	±0.24	0.086	0.07	53.2
Pr	ICP-MS	ppb	0.001	0.009	<0.001	0.725	±0.016	-	0.071	6.9
Rb	ICP-MS	ppb	0.015	1.050	0.030	6.000	±0.45	-	1.59	9.4
Sb	ICP-MS	ppb	0.007	0.030	<0.007	0.600	±0.06	0.23	0.274	8.1
Sc	ICP-MS	ppb	0.3	0.4	<0.3	2.0	±0.32	-	0.7	22.1
Sm	ICP-MS	ppb	0.001	0.007	<0.001	0.372	±0.008	-	0.059	7.1
Sr	ICP-MS	ppb	1	21	1	55	±7	26.3	29.26	8.3
Tb	ICP-MS	ppb	0.001	0.001	<0.001	0.039	±0.002	-	0.005	8.9
Th	ICP-MS	ppb	0.003	<0.003	<0.003	0.260	±0.01	-	0.010	-
Ti	ICP-MS	ppb	0.06	0.29	<0.06	2.04	±0.15	-	1.00	9.8
Tm	ICP-MS	ppb	0.001	<0.001	<0.001	0.013	±0.001	-	0.002	-
U	ICP-MS	ppb	0.002	0.048	<0.002	2.174	±0.027	0.05	0.050	6.6
V	ICP-MS	ppb	0.08	0.17	<0.08	0.96	±0.2	0.32	0.33	24.5
Y	ICP-MS	ppb	0.001	0.029	<0.001	1.008	±0.023	-	0.141	9.0
Yb	ICP-MS	ppb	0.001	0.003	<0.001	0.091	±0.002	-	0.013	10.5
Zn	ICP-MS	ppb	0.5	2.8	<0.5	91.3	±3.3	0.93	2.5	31.6
Zr	ICP-MS	ppb	0.1	<0.1	<0.1	2.1	±0.29	-	0.1	-

Notes:

1. ICP-MS= Inductively Coupled Plasma Mass Spectroscopy.
2. MDL = method detection limit
3. Estimated precision at 95% confidence level; based on results of 58 duplicate pairs.
4. SLRS-4 = National Research Council, Saint Lawrence River Standard #4: certified reference standard
5. Coefficient of variation at one standard deviation (68% confidence level)

Table 2: Kabinakagami Lake area, lake waters dataset, summary of elements analyzed by ICP-MS and quality control data, including estimates of precision.

result from limnological factors (e.g., redox conditions related to deep lakes, relative level of organic material in the sediment).

4) Magnitude of the anomaly

The magnitude of an anomaly, perhaps surprisingly, is one of the least important assessment criteria. Magnitude depends not only on the size of a deposit but on its distance from the lake, the presence and effectiveness of sinks between the source and lake, the limno-geochemical conditions in the lake, the weatherability of the deposit and the character of the surficial deposits (i.e., level of carbonate). The weatherability depends on factors such as exposure and/or depth of burial and on the specific mineralogy of the source. All these factors combine to make magnitude an unreliable estimate of the importance of an anomaly except in extreme cases or in cases where multiple samples and/or media corroborate its importance.

5) Correlation with Surficial Geology

Unconsolidated deposits can, under certain circumstances, cause a greater impact on the chemistry of lake media than can bedrock. Carbonate materials within eskers and thick ice-contact stratified drift deposits often result in relatively hard, alkaline lake waters. This type of lake water provides a geochemical matrix for trace elements that is very different to that of most shield lakes which are mildly acidic and organic-dominated. In general, most metals are relatively immobile in such alkaline conditions, therefore geochemical anomalies might be considered more significant and possibly close to source.

Dilution or addition to the trace metal signature in sediments can occur due to the presence of fine-grained unconsolidated material such as clay. Often a spatial relationship can be seen between lake sediment anomalies and glaciofluvial deposits such as eskers. In general, the sample collection and preparation protocols employed by the OGS, when properly carried out, minimize the deleterious effects of exotic inorganic materials which may be present in the survey areas.

6) Redox conditions, lake depth and organic content

Not all spatial trends in geochemistry are due to lithological or mineralogical factors. The solubility of trace metals depends to a large extent on the geochemical matrix and in particular, on pH and oxidation-reduction (redox) conditions. Redox conditions in a lake are usually controlled by thermal conditions which, in turn, are controlled by lake morphology and lake depth. If conditions are suitable for an element to preferentially partition into the lake sediment, factors that may influence (enhance) the concentration of the element include the abundance of Fe, Mn and organic material. The mechanisms that may lead to "false anomalies" include sorption (scavenging) by hydrous oxides of Fe and Mn and the affinity of some elements to form organo-metallic complexes. Enrichment of some elements in the shallow (surface to 10 cm deep) sediment due to the upward migration and precipitation/concentration of Fe and Mn (and other trace elements such as Co, Pb, Mo and Zn originally co-precipitated with Fe and Mn) can occur.

The OGS sampling technique avoids the surface sediment and targets the deep (>20 cm) sediment thereby reducing/minimizing the effects Fe, Mn and base metal enrichment that may occur in the surface sediment, whether by redox cycling or by anthropogenic input. This assumes a similar sedimentation rate in all of the sampled lakes and that the lake sediments deposited over the past several hundred years being undisturbed. This may not always be true. Sedimentation rates can vary depending on the energy of and the input to the depositional environment. Other factors to consider are sediment slumpage/mudslides, the effects of wavebase and the activities of animals. Therefore,

the inadvertent collection of some "mixed" (shallow and deep sediment) samples is unavoidable.

Discussion of Regional Geochemical Patterns

Proportional dot maps for pH, conductivity, lake depth, Al, Be, Ca, REEs and U in lake waters are contained in Appendix A. Lake sediment proportional dot maps for Al, Ag, As, Au(INAA), Au(FA), Ba, Be, Ca, Cd, Co, Cr, Cs, Cu, Fe, K, Li, LOI, Mg, Mn, Mo, Na, Nb, Ni, Pb, Pd, P, Pt, Rb, total REEs, Sb, Sc, Sr, Ta, Th, Ti, U, V, W and Zn are contained in Appendix B. Selected analytical data for lake sediment samples are listed in Appendix C and all of the analytical data are included in the digital (MRD-110) release.

The median values for pH and conductivity in lake waters collected from the survey area are 7.87 and 117.4 µS/cm, respectively. The regional patterns of pH and conductivity show clear patterns related to the underlying geology. Most of the lakes with low pH in the survey area are underlain by felsic intrusive rocks in areas of thin drift cover. The majority of these lakes are located in the southernmost portion of the survey area. These areas also correspond to anomalies of U, REEs, Al, Be and P in lake sediments and corresponding anomalies of U, REEs, Al and Be in lake waters. It is possible that there is a difference in the felsic intrusive rocks within these areas to account for the pH, lake sediment and water anomalies. Lakes with higher pH values occupy most of the northern portion of the survey area. Many of the highest pH values occur over areas of glaciofluvial ice-contact deposits. These areas also correspond to higher values of conductivity and are probably attributable to dissolved carbonate minerals derived from glaciofluvial deposits. The plots of Ca in lake sediments and in lake waters closely mirror the conductivity and pH plots. The alkaline conditions that exist in the northern portion of the survey may effect the interpretation of the geochemical anomalies in the Kabinakagami survey area. The solubility of many trace elements is decreased under alkaline conditions and may subdue some of the geochemical responses, such that, weaker anomalies in the northern portion of the survey area may warrant further investigation.

Description of Selected Anomalous Areas

The following is a summary of most of the multi-element and/or multi-site base and precious metal anomalous areas from the Kabinakagami Lake survey. The anomalies are loosely ranked by size and magnitude and are indicated on Figure 4. There are also numerous single site/single element anomalies that occur throughout the survey area that are not listed below, but may warrant further investigation. The land tenure map, indicating staked and areas withdrawn from staking, is shown as Figure 5. The locations for all of the lake sediment sample sites are shown on Figure 6 (back pocket).

Where the "±" symbol is used in the area description a particular element is present at elevated to anomalous levels in some, but not all, of the sample sites listed. The term "elevated" indicates analytical results above the 90th percentile, "anomalous" for results above the 95th percentile and "highly anomalous" for results above the 98th percentile. For the Au (both methods) and the PGE data, "weakly anomalous" refers to values at or above the 95th percentile while "anomalous" refers to values above the 99.5 percentile. Where possible, the dots on the proportional dot diagrams were sized to represent the percentile intervals: <50th, 50th - 75th, 75th-90th, 90th-95th, 95th-98th and >98th. Elements with a large proportion of analyses falling below the detection level or below the estimate of precision were plotted with fewer intervals. Based on favourable geology and/or geochemistry, the site numbers in bold contain the most noteworthy results from within each area.

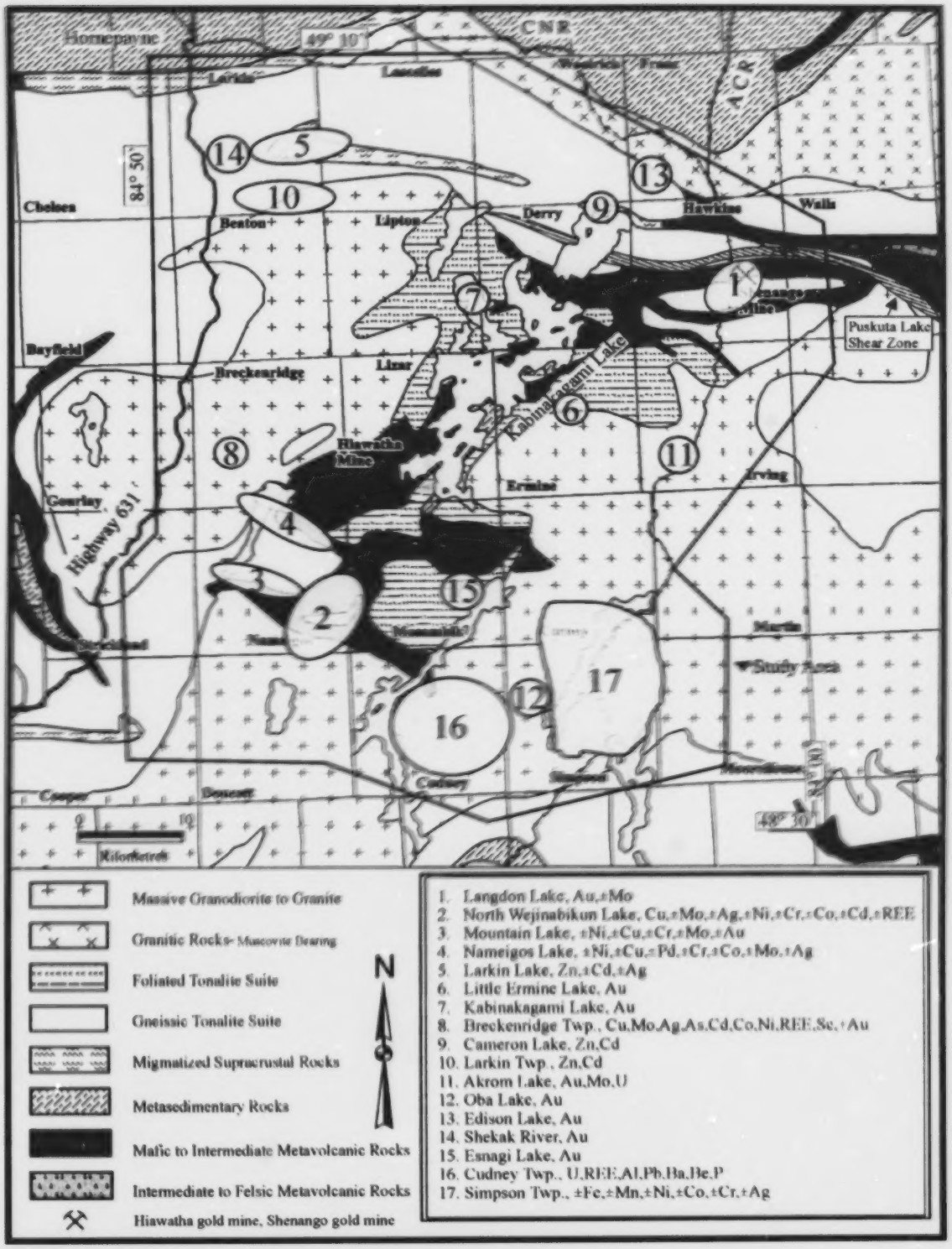

Figure 4. Location of selected geochemically anomalous areas

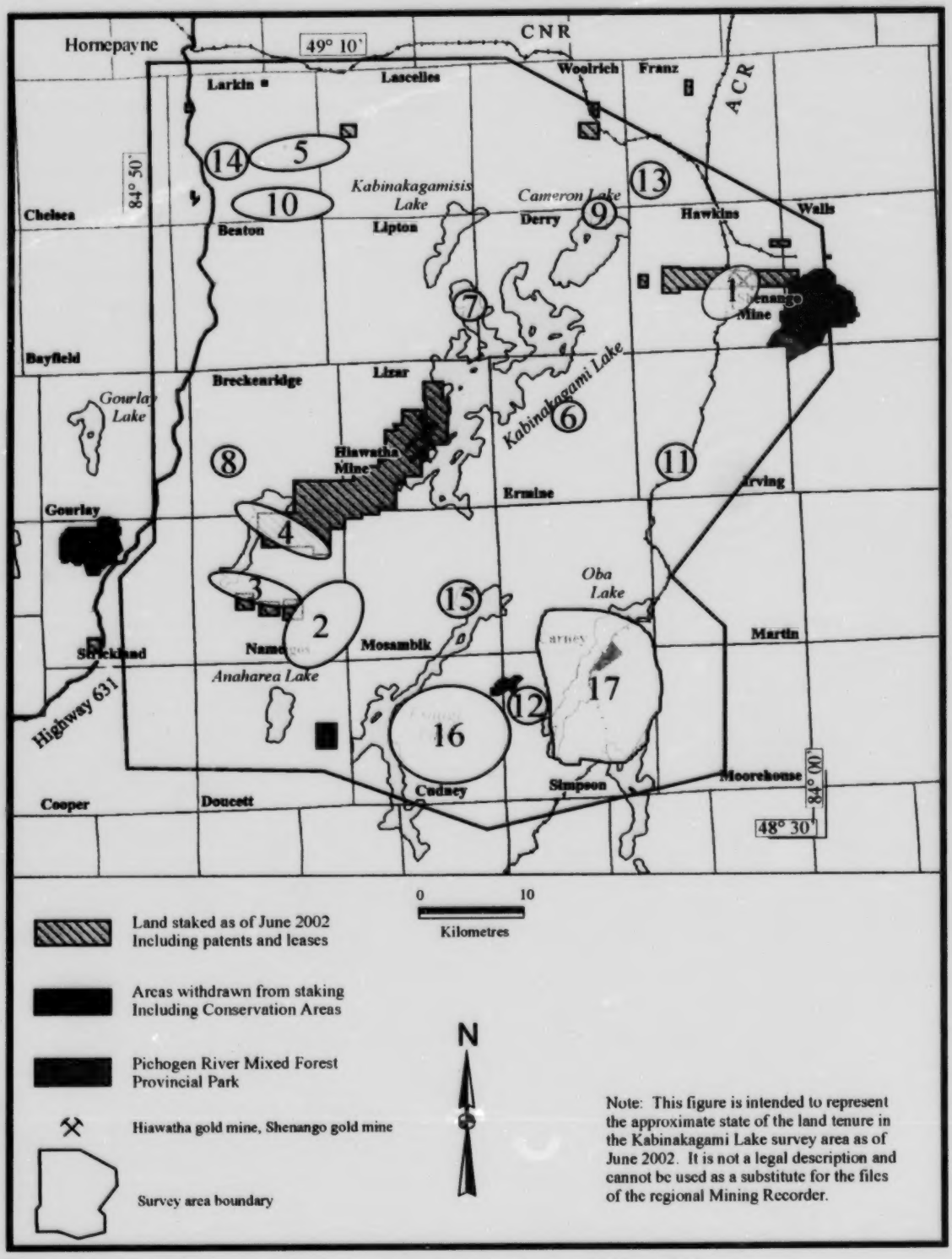

Figure 5. Land tenure map of the Kabinakagami Lake area as of June 2002.

1. Langdon Lake Au, ±Mo

Sites: 106, 107, 145

The Langdon Lake area is located in central Hawkins Township near the eastern edge of the survey area. Several Au and Mo occurrences are known from this area along with the past producing Shenango gold mine. Site 145, located in Gull Lake (4 km SW of Langdon Lake), returned a value of 19 ppb Au(INAA). This is the highest Au(INAA) value returned from the survey area. There was insufficient pulp material to analyze this sample by the FA method. South of Gull Lake, molybdenite is reported from 2 locations on the east and west banks of the Oba River. The molybdenite occurs in quartz veins, granitic dikes and felsic lenses within mafic volcanic rocks (Wilson 1993). Although site 145 returned a low Mo value, sites 144, 172 and 173 returned elevated to anomalous values of Mo from lakes located to the west of this showing. Grab samples of vein material collected near this showing returned elevated Mo and Au values (Wilson 1993).

Site 106 returned a low value of 5 ppb Au(INAA) and a highly anomalous Mo value (7.5 ppm) from the north end of Langdon Lake. There was insufficient pulp material to analyze this sample by the FA method. The Langdon Lake showing is located about 100 m from the north shore of Langdon Lake. The showing consists of 4 small pits/shafts within sheared mafic metavolcanic rocks with narrow felsic metavolcanic interbeds (Wilson 1993). Reported drill core assays from this showing range from 190 to 390 ppb Au from quartz veins and felsic sections (Wilson 1993). The showing is located within the Puskuta Lake shear zone. Mineralization occurs along the contact with sheared mafic metavolcanic rocks and sheared felsic intrusive rocks. Most of the elevated Au values occur with pyrite and chalcopyrite mineralization within the felsic rocks (Wilson 1993). During the summer of 1978, the Geological Survey of Canada (GSC) collected a lake sediment sample from the southern end of Langdon Lake. Although the Au value from this sample is less than detection (<2 ppb), the sample did yield an anomalous value of 8 ppm Mo (Friske et al. 1991). Site 105, located very close to the GSC sample, returned a highly anomalous value of 7.9 ppm Mo.

An anomalous value of 10 ppb Au(INAA) was returned from site 107 located 1.5 km east of Langdon Lake. This sample also returned a highly anomalous value of 9.5 ppm Mo. These are the 3rd and 4th highest Au and Mo values, respectively, obtained from the survey area. This sample was not analyzed by the FA method due to insufficient pulp material. Site 107 also returned the 2nd highest value of 0.7 ppb Mo in lake water from the survey area. The GSC also sampled this lake and obtained values of 5 ppb Au and 9 ppm Mo. Site 107 is located about 150 m from the past producing Shenango gold mine. The property is situated within the Puskuta Lake shear zone and consists of 2 shafts (#1 and #2) located 50 and 500 m inland and a submerged adit along the northern shore of the lake. Historical exploration and development from the property began in the early 1930's and continued into the early 1940's. The Shenango #1 shaft produced 67 ounces of Au and 37 ounces of Ag from 2 400 tons of material (Ferguson et al. 1971, p.19). A drill estimated reserve of 41 600 tons grading 0.14 ounces per ton Au is indicated to exist on the property (Wilson 1993). The mineralization occurs within intensely sheared mafic and felsic metavolcanic rocks and felsic intrusive rocks. The gold mineralization appears to be concentrated within the felsic metavolcanic rocks and occurs with pyrite as disseminations, fracture filling or coarse blebs associated with quartz veins and clots (Wilson 1993).

Several other sites in the area contain elevated to highly anomalous values of Mo. As of June 2002, much of the area around Langdon Lake was staked, but the Gull Lake area was open for staking.

2. North Wejinabikun Lake Cu, ±Mo, ±Ag, ±Ni, ±Cr, ±Co, ±Cd, ±REEs

Sites: **619**, **620**, 659, 660-**662**, **676**, **677**, 678, **681**, **712**, **713**, 715, **735**, 738, 739, 768, 770, 789, 815, 817, 853, 854, 856, **858**, 859, 861, 877, 878, **924**-927

Cu anomalies cover a wide area over the southern portion of the Kabinakagami greenstone belt and extend southward into the granodioritic intrusive rocks. All of the sites listed above contain elevated to anomalous values of Cu. The sites listed in bold contain highly anomalous values of Cu. Site 735 returned the 3rd highest Cu value of the survey area (170 ppm), highly anomalous Ag with elevated Cd and Co. Several of the other sites listed above contain elevated to highly anomalous values of Ni, Cr, Mo, Ag, Co and Cd. Sites 681, 712, 713, 738, 770, 858, 859, 924 and 926 also contain elevated to highly anomalous values of rare earth elements.

In addition to the sites listed above, there are a number of sites in the North Wejinabikun Lake area that contain low Cu values but do contain anomalous Ni and Cr values. Sites 512, 513, 621, 734, 736, 737, 740, 788, 860, 879 and 882 all contain elevated to anomalous Ni values and most of these sites also contain elevated to anomalous Cr values. Sites 512, 513, 621, 736, 737 and 740 may be false anomalies due to high inorganic content or scavenging by hydrous oxides of Fe and Mn. Some caution should be used when interpreting these sites.

The area is underlain by mafic metavolcanic and pyroclastic rocks, thin felsic metavolcanic units and clastic metasedimentary rocks. Ultramafic metavolcanic rocks outcrop near Mountain Lake in the southwestern portion of the greenstone belt (Siragusa 1978). Sites 619, 620, 662, 676 and 677 returned highly anomalous values of Cu (ranging from 72 to 89 ppm) and form a northwest trending string of linear anomalies in the center of the greenstone belt. Lake sediment sites 676 and 677 also returned anomalous values of Mo from the same area. A known molybdenite showing occurs in the same lake where site 676 was collected. A small granodiorite body intrudes mafic metavolcanic rocks along the eastern shore of this lake. Fine grained molybdenite mineralization occurs in a 10 cm wide quartz vein along the margin of the granodiorite body. A grab sample of the mineralization returned a value of 0.11% Mo (Siragusa 1978). The same lake (site 676) was sampled by the GSC in 1978 and returned an anomalous Cu and a highly anomalous Mo value (Friske et al. 1991).

A value of 10 ppb Au and elevated Ni was obtained from a small lake located 500 m west of site 620 by the GSC in 1978. This lake was not sampled during the present survey because the lake has since dried up. The GSC obtained several other weak Au values in the North Wejinabikun Lake area. Sites 676, 678, 737 and 770 returned values of <1, <1, 3 and <1 ppb Au(INAA), respectively, from the present survey and values of 3, 4, 3 and 4 ppb Au from the GSC survey, respectively. In the same area, sites 621, 715 and 734 returned low values of 4, 6 and 4 ppb Au(INAA), respectively. These lakes were not sampled by the GSC during their survey.

Farther south of Wejinabikun Lake, Cd, Cr, Cu, Mo, Ni and Pb anomalies extend into the granitic terrain towards Anaharea Lake. A showing of Cu mineralization in float was described by Giblin (1968, p.3,4) from metavolcanic rocks occurring along the northeastern shore of Anaharea Lake located 5.5 km south of the greenstone belt. The mineralization consists of pyrite, pyrrhotite and chalcopyrite mineralization in pieces of metavolcanic and metasedimentary rocks (Giblin 1968). It is possible that the anomalies that extend into the granitic rocks to the south of the Kabinakagami greenstone belt are a result of glacial smearing.

The North Wejinabikun Lake area may be prospective for base metal and/or Au mineralization. As of June 2002, 3 small claim blocks were staked in the Mountain Lake area.

3. Mountain Lake ±Ni, ±Cu, ±Cr, ±Mo, ±Au

Sites: 785, 820, 821, 822, 903, 941

Mountain Lake is located in central Nameigos Township and is underlain by felsic intrusive rocks and a narrow band of mafic metavolcanic rocks of the Kabinakagami greenstone belt. The mafic metavolcanic rocks are up to 2 km wide and thin to the northwest. The sequence trends northwest and dips to the south. Ultramafic metavolcanic rocks form the base of the sequence in the Mountain Lake area (Siragusa 1978). Site 785 is located approximately 400 m north of an outcropping of ultramafic metavolcanic rocks. This site returned a highly anomalous Ni (32 ppm) and an elevated Mo value. Site 822, located 2 km west of site 785, returned an anomalous Ni (30 ppm) value with elevated Cu, Cr, Co and Mo values. Both of these sites were sampled by the GSC in 1978 and similarly, returned elevated Ni and Mo values. The sampling conducted by the GSC also returned a weak value of 4 ppb Au from Mountain Lake (Friske et al. 1991). A value of 3 ppb Au(INAA) was returned from site 822 in the same lake. Sites 820 and 821 are located in 2 small lakes within the mafic metavolcanic sequence. A highly anomalous Cu value (97 ppm) was obtained from site 821 and anomalous Cu with highly anomalous Mo was returned from site 820.

Two showings of Mo are located approximately 6 km west of the Mountain Lake area. The showings consist of molybdenite mineralization within pegmatitic quartz monzonite intruding mafic metavolcanic rocks and pyrite and molybdenite mineralization within a narrow band of felsic metavolcanic rocks (Siragusa 1978). Several other lake sediment sites (851, 911, 912 and 913) in the southern Nameigos Lake area (3 km northwest of Mountain Lake) contain elevated to highly anomalous values of Cs, Li and Rb. Site 941, located 6.5 km west of Mountain Lake, returned a weak value of 3 ppb Au(INAA). This lake was also sampled by the GSC and returned a higher value of 7 ppb Au. Site 903, located north of 941, returned a weak value of 5 ppb Au(INAA). The Au values were not corroborated by the fire assay analytical method.

The Mountain Lake area may be prospective for base metal and/or Au mineralization. As of June 2002, 3 small claim groups were staked over the metavolcanic rocks located south of Mountain Lake.

4. Nameigos Lake ±Ni, ±Cu, ±Pd, ±Cr, ±Co, ±Mo, ±Ag

Sites: 511, 617, 618, **672**, 673, 674, 717, 730, 733, 824, **825**

Site 672 returned the 2nd highest Cu value of the survey area (250 ppm), 2nd highest Mo value of 16.7 ppm, highly anomalous Ni (32 ppm) and elevated Ag. Site 825 returned a highly anomalous Cu value (161 ppm), anomalous Ag, elevated Cr and a value of 4 ppb Pd. The Pd value obtained at this site is relatively low but is the highest value from the survey area. Quality control assessment of the accuracy of the Pd data indicated possible erroneously elevated Pd values for site 825 and caution should be used when interpreting this data. Site 511 returned the highest Ni and Cr values (46 and 59 ppm, respectively) in the survey area. This site also returned highly anomalous Fe, anomalous Mn and a LOI content of 17.59%. The inorganic content and presence of Fe and Mn may indicate potential metal scavenging by hydrous oxides. Site 511 may be a false anomaly and caution is advised. The GSC sampled this lake (site 511) and also returned anomalous values of Ni, Fe and Mn with an LOI content of 19%. Sites 783 and 824 returned anomalous Fe values with low LOI values. These sites also contain clay and caution is advised when interpreting these anomalies.

The area is underlain by granitic intrusive rocks near the contact with mafic metavolcanic rocks of the Kabinakagami greenstone belt. A mineralized outcropping of schistose mafic metavolcanic rocks

is located along the northeastern shore of Nameigos Lake. The mineralization consists of massive pyrite stringers up to 1.2 cm wide with traces of chalcopyrite and sphalerite. A grab sample of the mineralization returned a value of 0.25% Zn and 0.05% Cu (Siragusa 1978). As of June 2002, most of the area was staked.

5. Larkin Lake — Zn, ±Cd, ±Ag

Sites: 64, **66**, 484, 489, **494**

Site 66 returned a highly anomalous Zn (139 ppm) and an elevated Cd value. Highly anomalous Zn (117 ppm) and elevated Ag was returned from site 494. Sites 64, 484 and 489 returned elevated to anomalous values of Zn. Several other sites in the area (478-480, 482, 485-488 and 493) returned elevated to highly anomalous values of As, Ba, Mo, Sb and W. The Larkin Lake area is underlain by migmatized metavolcanic/metasedimentary rocks and felsic intrusive rocks. Larkin and Lascelles townships have not been mapped in detail and no mineral showings are known to occur in the area. As of June 2002, one small claim was staked near the western shore of Lascelles Lake.

6. Little Ermine Lake — Au

Site: 321

Little Ermine Lake is located in central Ermine Township. Site 321 returned the 2nd highest Au(INAA) value of 17 ppb along with a weakly anomalous W value. The area is underlain by massive to foliated tonalitic to granodioritic intrusive rocks. Mafic metavolcanic rocks are mapped about 1.5 km to the northwest of this site. No other elements are anomalous at this site and the FA method failed to reproduce the Au(INAA) value. The sample was obtained from a deep portion of the lake (10 m) and corresponds to a northeast trending lineament shown on the geological map of the area (Siragusa 1977). This lake was not sampled by the GSC in 1978. As of June 2002, there were no claims in the area.

7. Kabinakagami Lake (north) — Au

Site: 193

Site 193 is located in the northern portion of Kabinakagami Lake and returned the 2nd highest Au(FA) value of the survey area. This site returned a value of 21 ppb Au(FA), 1 ppb Au(INAA) with elevated Nb, Rb, Th and Ti. The sample contains a high inorganic component (LOI=21.95%) and some care should be used when interpreting this anomaly. The GSC collected a sample in the same portion of the lake and returned a value of 7 ppb Au. Tonalitic to granodioritic rocks underlie much of the area. A thin sequence of mafic metavolcanic rocks trends northwest through this part of the lake. As of June 2002, the area was open for staking.

8. Breckenridge Twp. — Cu, Mo, Ag, As, Cd, Co, Ni, REEs, Sc, ±Au

Site: 847

This single site anomaly returned the highest Cu (356 ppm), As (56 ppm), Co (25.98 ppm), total rare earth elements (976.8 ppm) and Sc (9.2 ppm) values of the survey area. This site also returned elevated

values of Cr, Cs, U with anomalous values of Fe, Sb and highly anomalous values of Ag, Mo, Cd, Ni and Th. The Ag value obtained from this site is the 2nd highest value (0.32 ppm) of the survey area. A low value of 4 ppb Au(INAA) was also returned from this site. The area is underlain by massive granodiorite and is located 7 km northwest of the northern contact of the Kabinakagami greenstone belt. The GSC did not sample this lake during their survey in 1978, but 2 other lakes in the area returned values of 19 and 8 ppb Au (Friske et al. 1991). The 19 ppb Au anomaly is located in a small lake 2.5 km southwest of site 847. Site 897 is located in this lake and returned a low value of 2 ppb Au(INAA). The 8 ppb Au value, collected at site 838, is located 4.5 km northeast of site 847. Site 838 returned a Au(INAA) value of less than the detection limit (<1 ppb). As of June 2002, the area was open for staking.

9. Cameron Lake — Zn, Cd

Sites: 40, 93

These 2 sites are located near the north shore of Cameron Lake. Site 93 returned the highest Zn value (174 ppm) of the survey area along with a highly anomalous Cd value (0.9 ppm). Site 40 returned elevated values of Zn, Cd and Mo. The GSC also sampled site 40 and returned an anomalous Mo value (Friske et al. 1991). The area is underlain by felsic intrusive and migmatized metavolcanic/ metasedimentary rocks. Sites 41 and 43, located in the same area, returned anomalous to highly anomalous values of Cd and Mo. As of June 2002, the area was open for staking.

10. Larkin Twp. — Zn, Cd

Sites: 73, 295, 357, 500

Anomalous to highly anomalous values of Zn (98, 105, 112 and 129 ppm, respectively) were returned from 4 sites in the southeastern portion of Larkin Township. These sites also returned elevated to highly anomalous values of Cd and site 73 returned an anomalous value of As. Sampling by the GSC in this area returned anomalous values of Zn and Ag (Friske et al. 1991). The area is underlain by tonalitic to granodioritic intrusive rocks. The LOI values indicate that these samples are highly organic (>79%) and this may be the contributing factor to the anomalies from these sites. Some caution is advised. As of June 2002, the area was available for staking.

11. Akrom Lake — Au, Mo, U

Site: 233

Site 233 is located in southern Irving Township and returned the highest Au(FA) value of the survey area. This site returned a value of 96.2 ppb Au(FA), <1 ppb Au(INAA), highly anomalous Mo with anomalous U. No other Au values were obtained from this area. The lack of corroboration for Au between the analytical methods suggests some caution should be used when interpreting this anomaly. The area is underlain by massive granodioritic intrusive rocks. As of June 2002, the area was open for staking.

12. Oba Lake Au

Sites: 576, 577

These 2 sites are located near the southern end of Oba Lake in Simpson Township. Site 577 returned a weak value of 5 ppb Au(INAA) and <0.9 ppb Au(FA). The GSC obtained a value of 12 ppb Au from the same lake (Friske et al. 1991). This site also returned highly anomalous values of Al, Ba, Be, Co, Cr, Cs, K, Li, Ni, anomalous values of Fe, Pb, Rb, Sc, Ti and elevated values of Ag, Mn, Na, Nb and Th. The anomalous suite of elements and the presence of Fe and Mn in the lake sediment suggest possible metal scavenging by hydrous oxides are responsible for the anomaly at this site. This may be a false anomaly and caution should be used when interpreting this anomaly.

Site 576 located 2 km west of site 577 returned a low value of 4 ppb Au(FA). The Au value was not corroborated by the INAA analytical method. The lack of corroboration between the Au methods and the low value of Au obtained from this site indicate that caution should be used when interpreting this anomaly. The area is underlain by tonalitic and granodioritic intrusive rocks. As of June 2002, the area was open for staking.

13. Edison Lake Au

Site: 036

A weak value of 5 ppb Au(INAA) was returned from site 36 located in Edison Lake. No other elements are anomalous at this site. The GSC obtained an anomalous value of 12 ppb Au from the same lake (Friske et al. 1991). The area is underlain by tonalitic to granodioritic intrusive rocks. As of June 2002, the area was open for staking.

14. Shekak River Au

Site: 1005

This single site anomaly returned a value of 9.4 ppb Au(FA), 2 ppb Au(INAA) and highly anomalous As, Fe and Mn. The Mn value (2307 ppm) is the highest value obtained in the survey area. This may be a false anomaly due to metal scavenging by hydrous oxides of Fe and Mn. Caution is advised when interpreting this anomaly. The area is underlain by gneissic tonalitic rocks. As of June 2002, the area was available for staking.

15. Esnagi Lake Au

Site: 434

Site 434 is located in the northern portion of Esnagi Lake in Cudney Township. This sample returned a value of 7 ppb Au(INAA) with an elevated Li and weakly anomalous Ta value. This sample is highly inorganic (LOI=14.06%) and contained clay. The inorganic nature of the sample may be the contributing factor to the anomaly at this site and caution is advised. The GSC sampled this lake and returned a Au value that was less than the detection limit (<2 ppb). The area is underlain by tonalitic to granodioritic intrusive rocks and as of June 2002, this area was available for staking.

16. Cudney Township U, REEs, Al, Pb, Ba, Be, P

Elevated to highly anomalous values of U cover a wide area between Esnagi and Oba Lakes in Cudney and Simpson townships. The U values form a tight pattern and appear to be fault bounded on all sides. Sampling completed by the GSC returned a similar pattern of U values in this area (Friske et al. 1991). Elevated to highly anomalous values of REE, P, Pb, Be, Ba and Al in lake sediments show the same pattern. Many of the highest values obtained from the survey area for the elements listed above occur in the Cudney Township area. These anomalies are also apparent for Al, Be, U and REEs in lake water. The area is mapped as massive granodiorite (Ontario Geological Survey 1991). This suite of elements may suggest that a different phase of the granodioritic intrusive rock exists in the area. Mapping completed by Siragusa (1978) indicates that quartz monzonite and microcline-quartz pegmatite predominate between Esnagi and Oba Lakes. As of June 2002, the area was open for staking.

17. Simpson Township ±Fe, ±Mn, ±Ni, ±Co, ±Cr, ±Ag

Sites: 437, 443-446, 449, 450, 518-522, 537, 549, 551, 552, 571, 574, 577, 579, 581, 584, 592, 644

Elevated to highly anomalous values of the elements listed above occur over a wide area in the Simpson Township area. Most of these sites also contain elevated to highly anomalous values of Al, Ba, Be, Cs, K, Li, Na, Nb, Pb, Rb, REE, Sc, Th, Ti and V. The area is underlain by massive granodiorite to granitic intrusive rocks. The presence of Fe and Mn in these samples indicates potential metal scavenging processes are responsible for the widespread anomalies obtained from this area. Caution is advised when interpreting these anomalies. As of June 2002, most of the area was open for staking.

Conclusions

The preliminary results and interpretations discussed in this report have identified a number of precious and base metal exploration targets. The target areas include single and multi-site anomalies and most contain several anomalous elements. Anomalous elements include Au, Cu, Ni, Cr, Zn, Cd, Co, Ag, Mo and As. Several sites are considered priority areas for further geological investigation. Some of the sites contain anomalies caused by anthropogenic influences and caution should be used when interpreting the analytical data.

Acknowledgments

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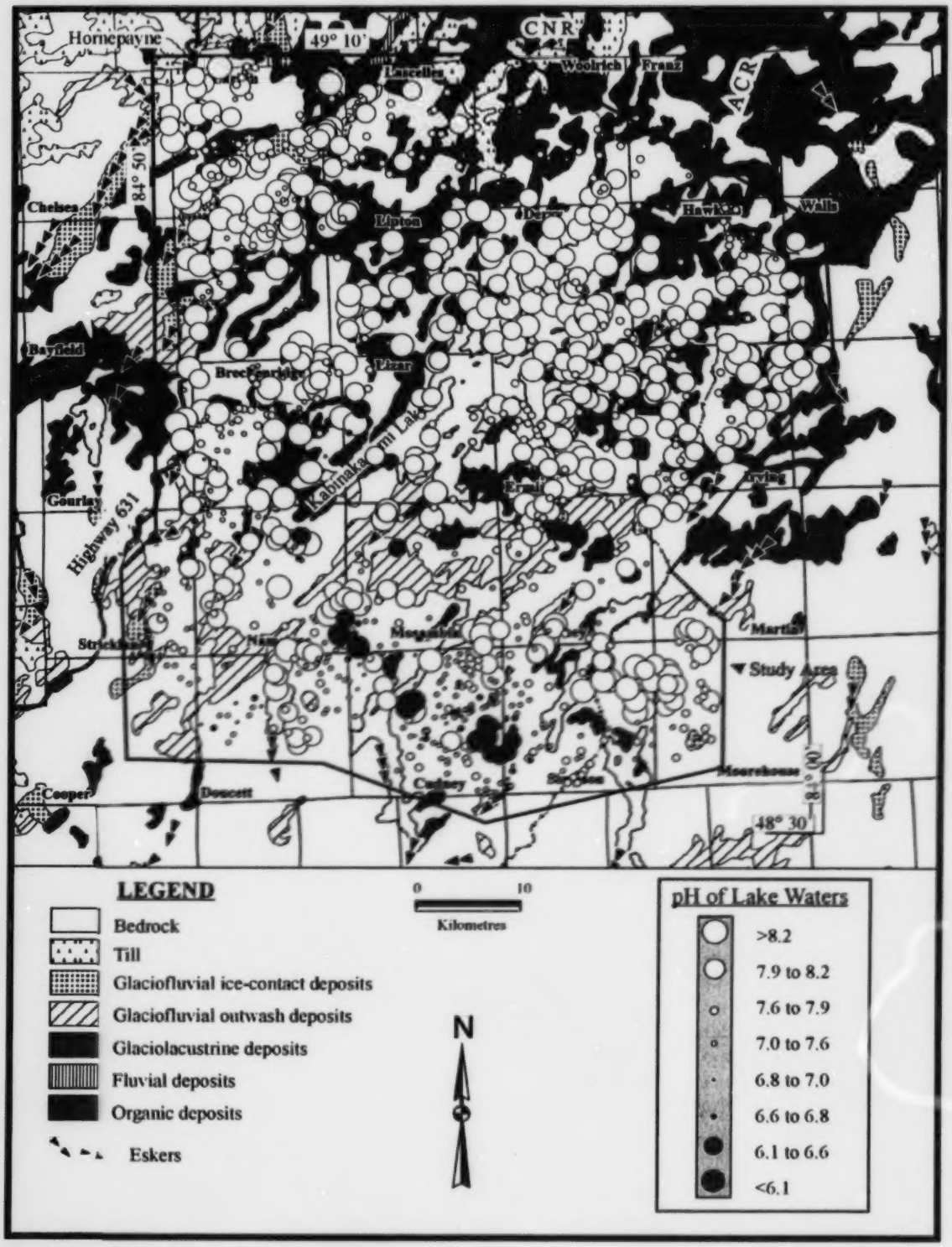
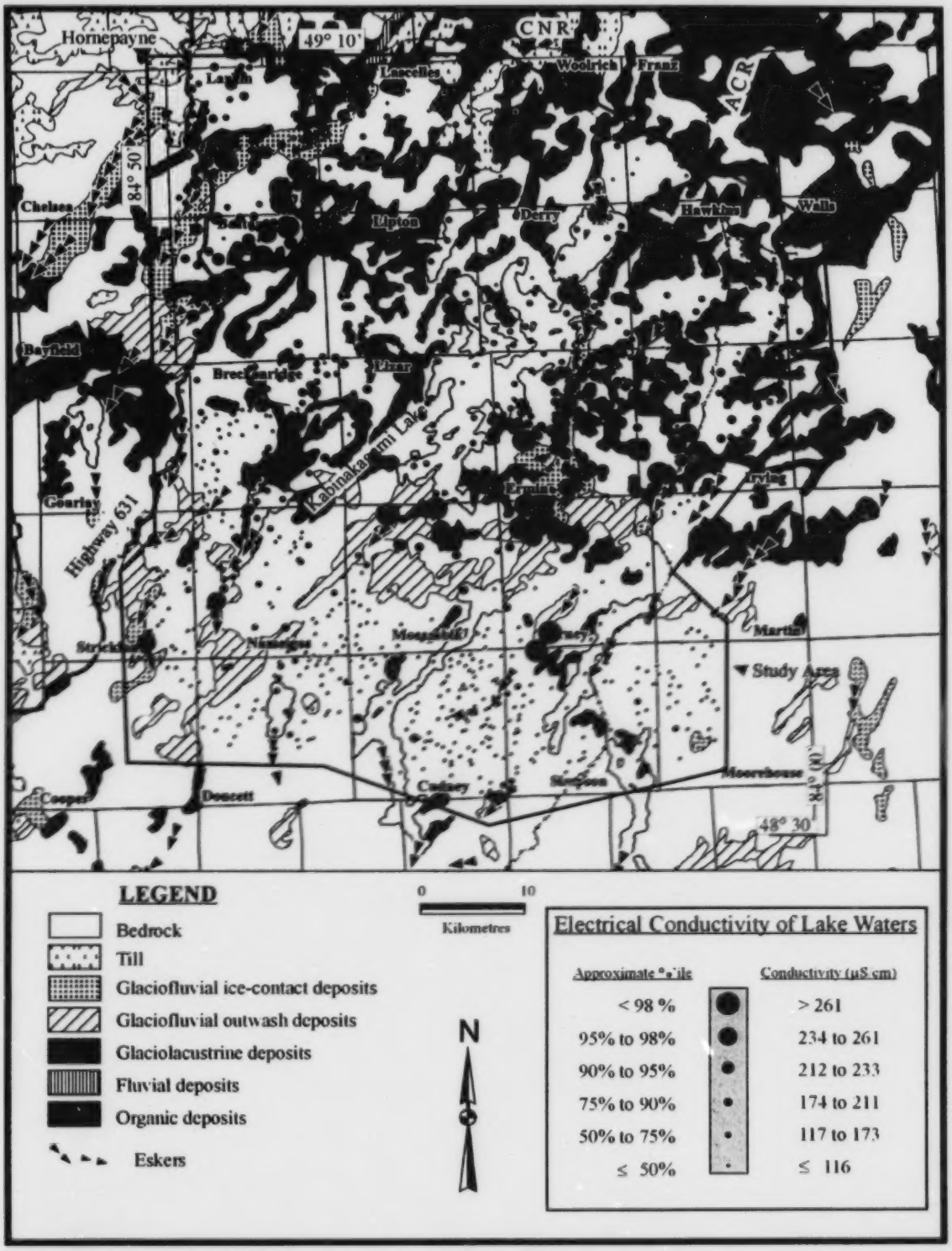
APPENDIX A

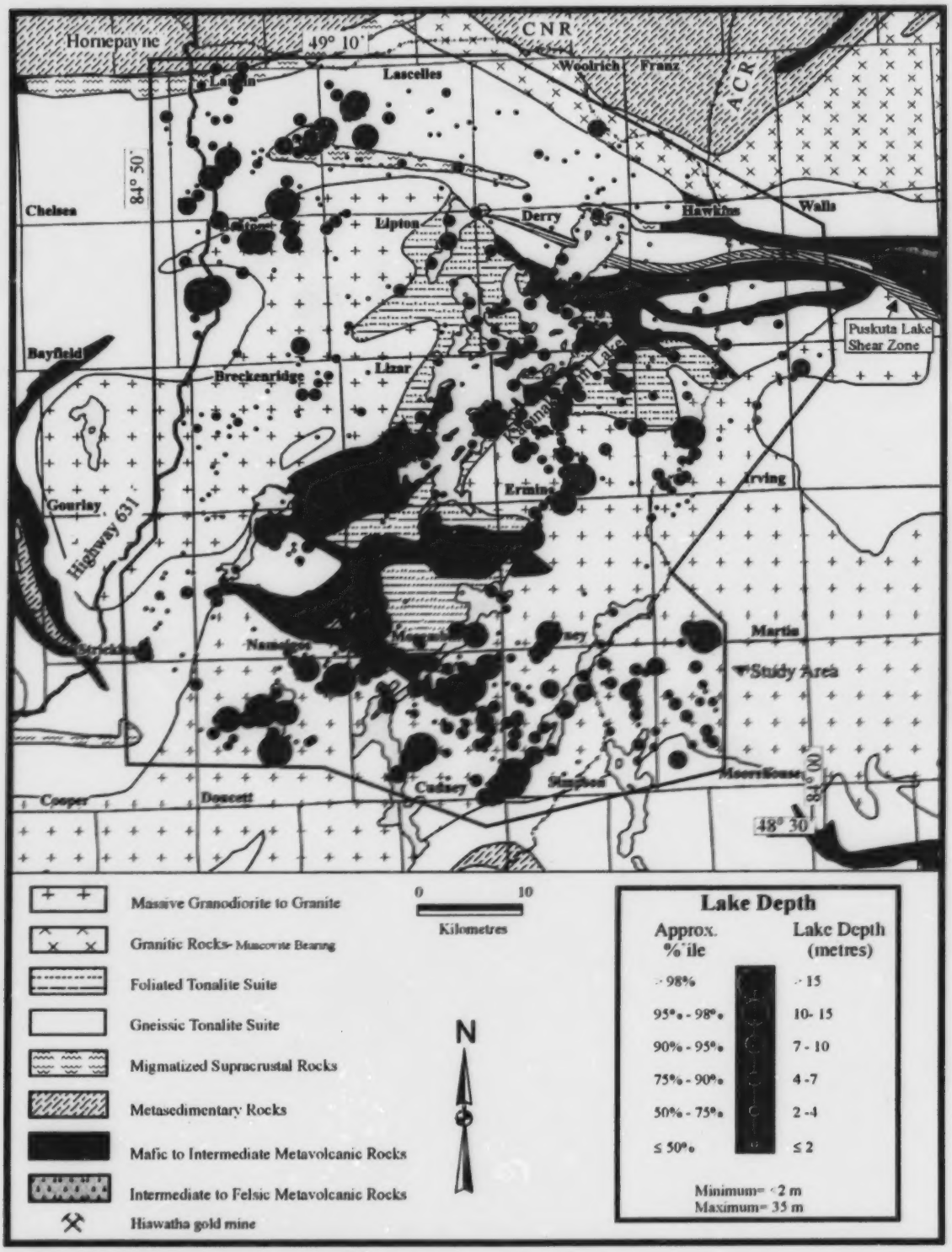
Proportional dot maps of pH, conductivity, lake depth,
Al, Be, Ca, REEs and U in lake waters



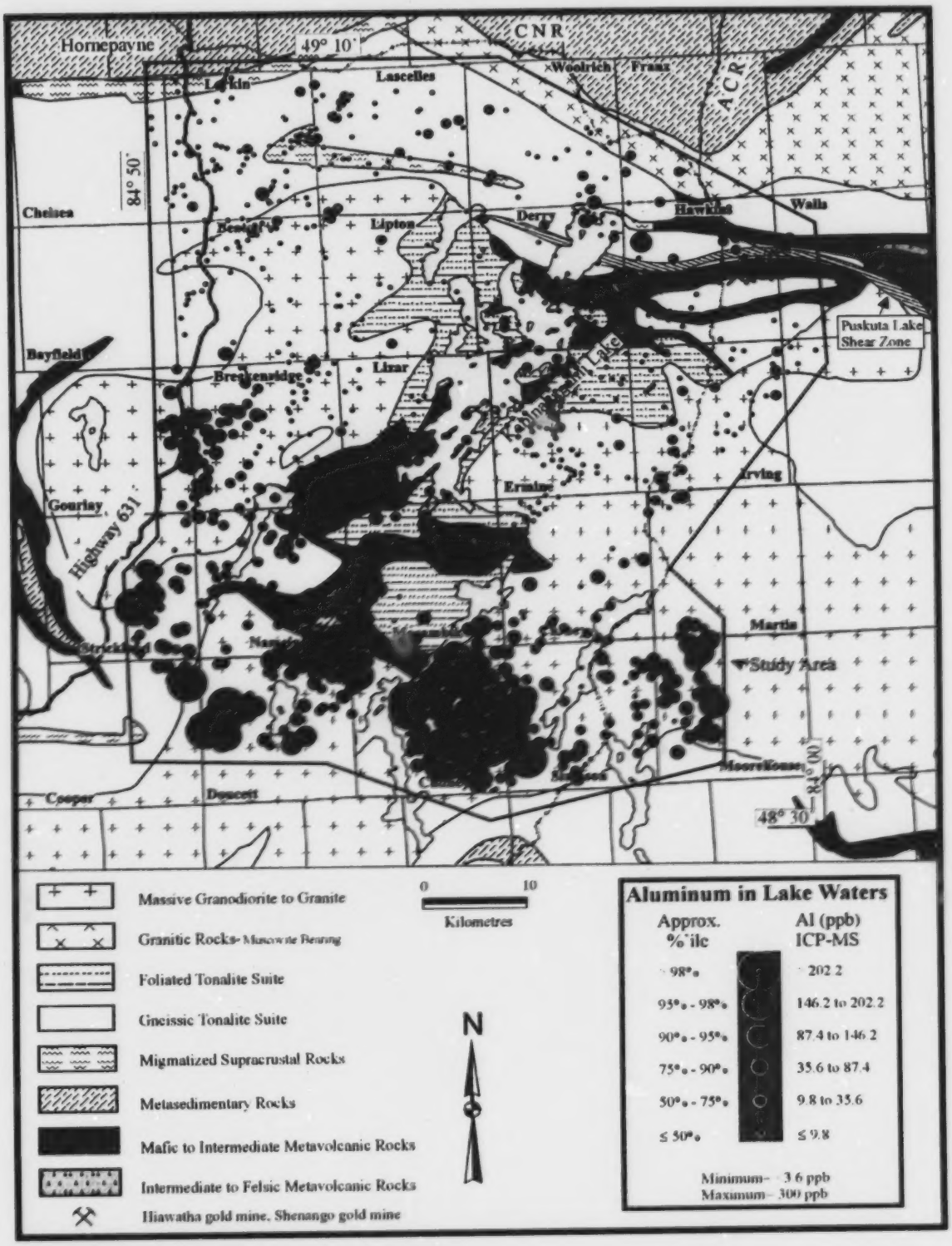
Proportional dot map displaying pH of lake waters



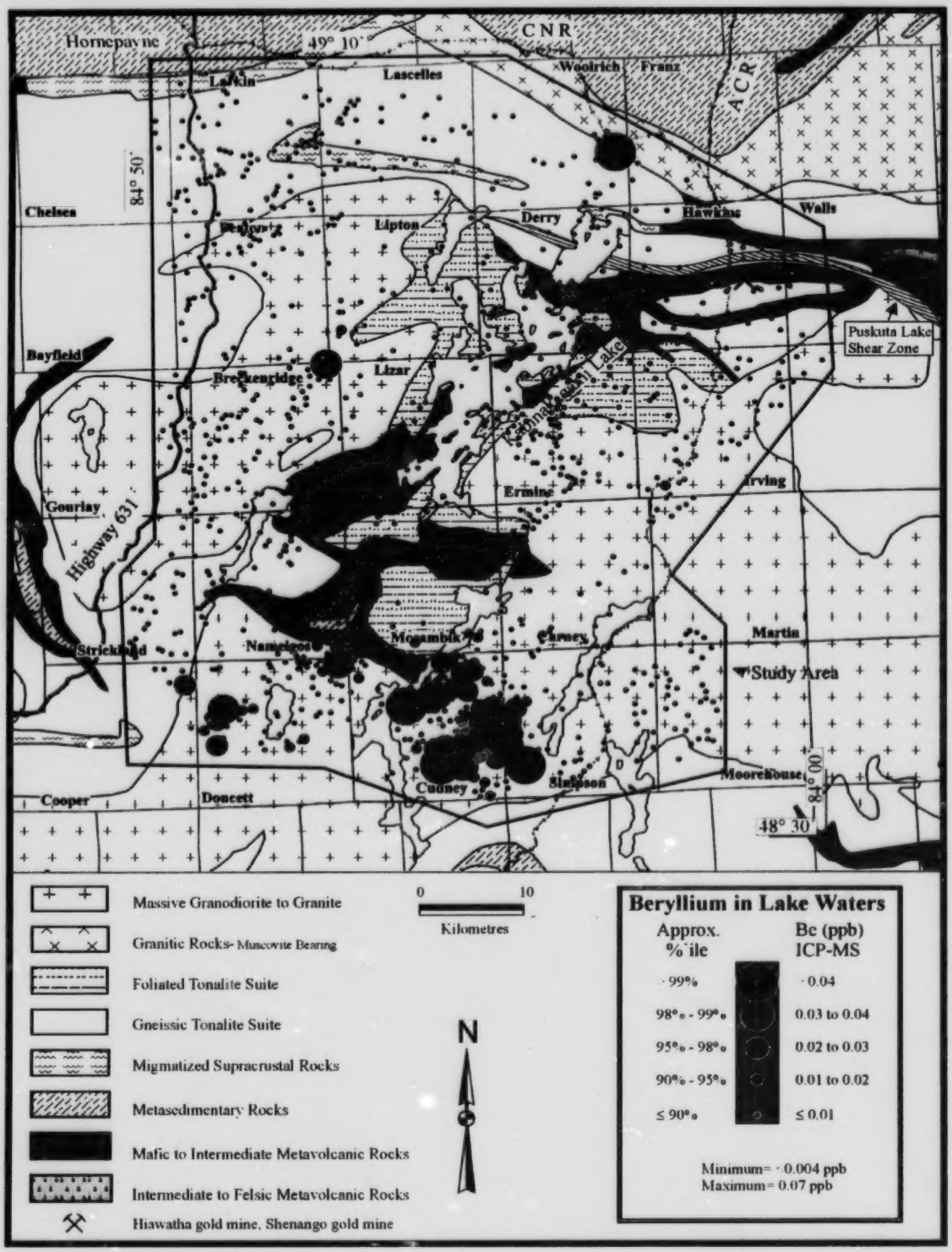
Proportional dot map displaying conductivity of lake waters



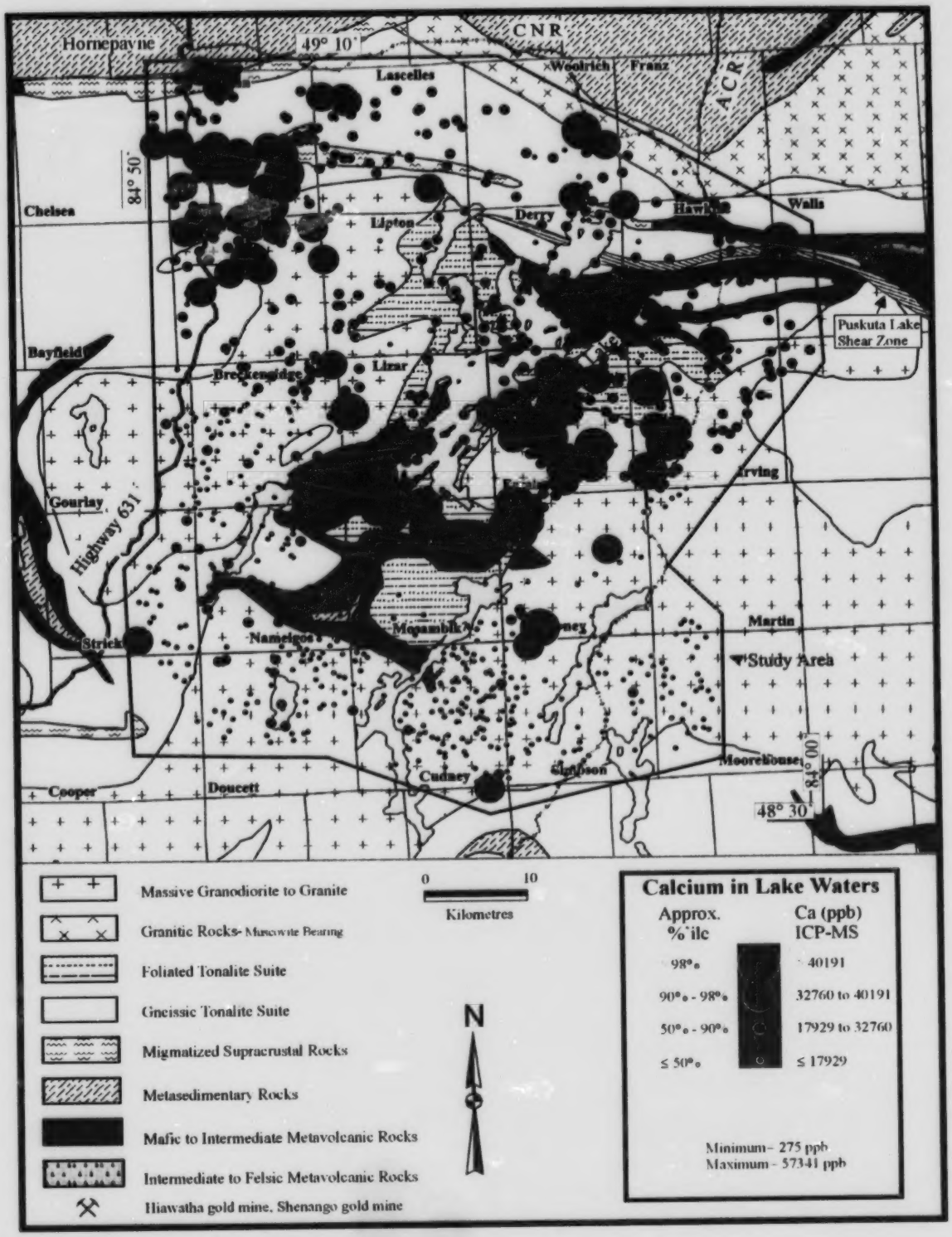
Proportional dot map displaying depths of lakes



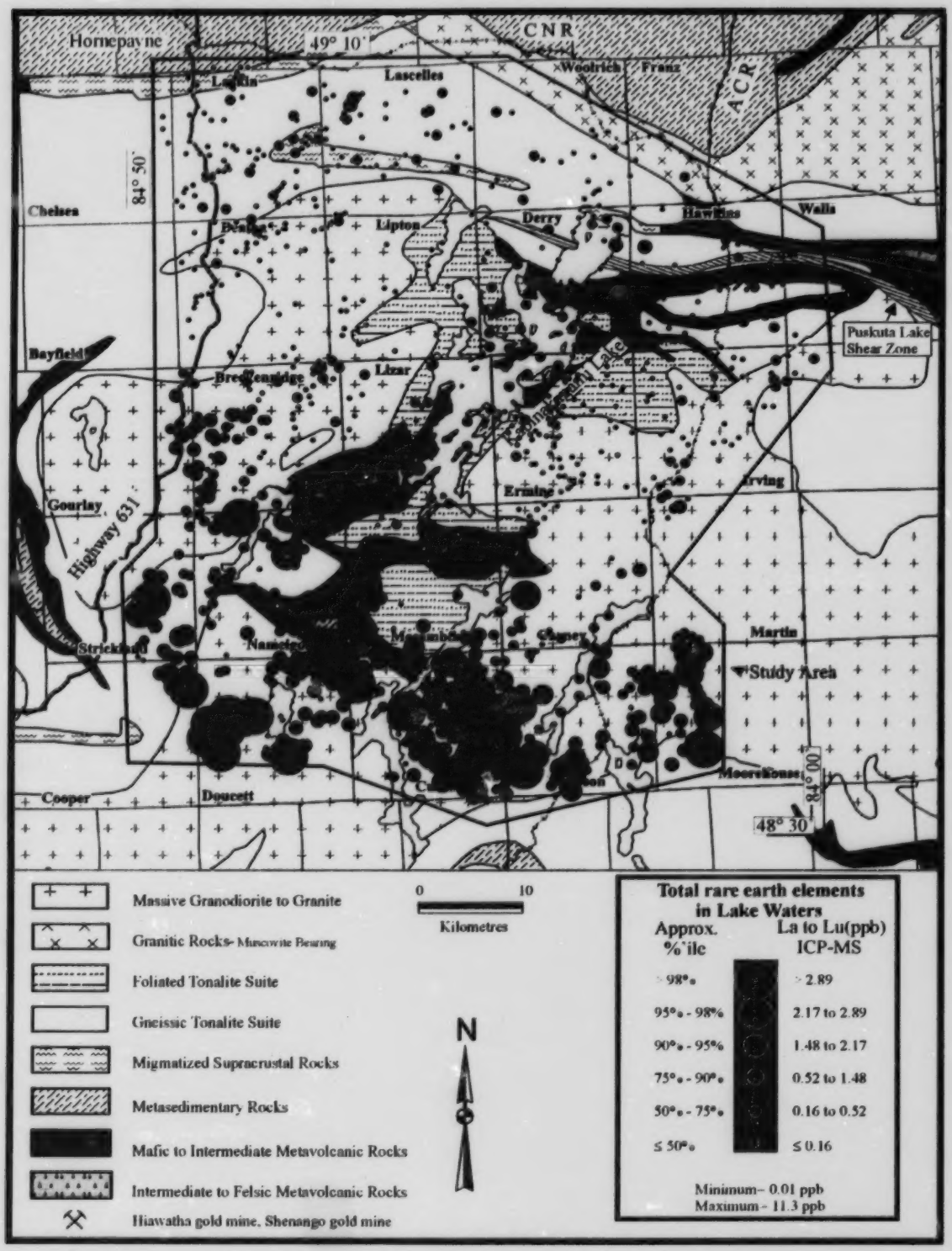
Proportional dot map of aluminum in lake waters



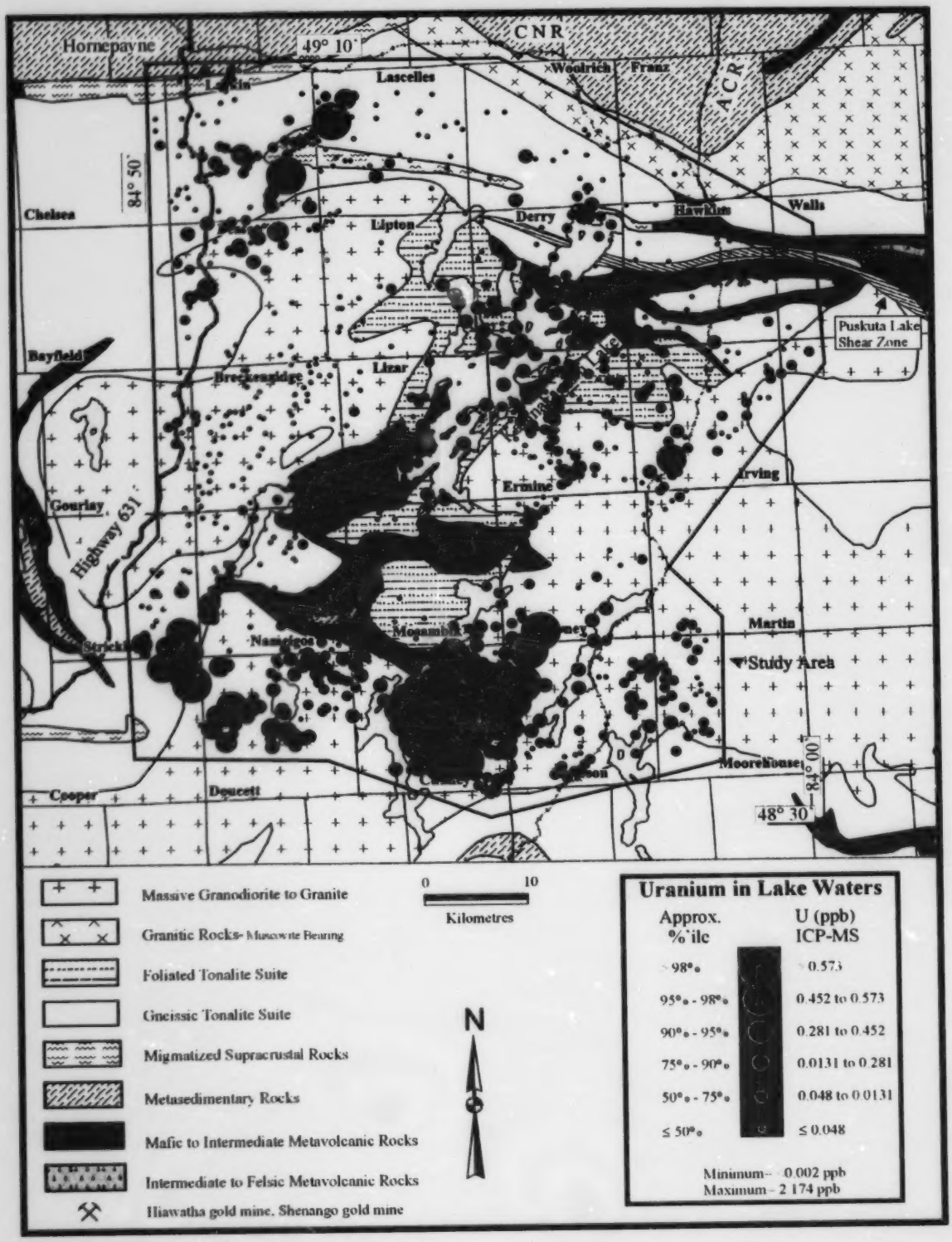
Proportional dot map of beryllium in lake waters



Proportional dot map of calcium in lake waters



Proportional dot map of total rare earth elements in lake waters



Proportional dot map of uranium in lake waters

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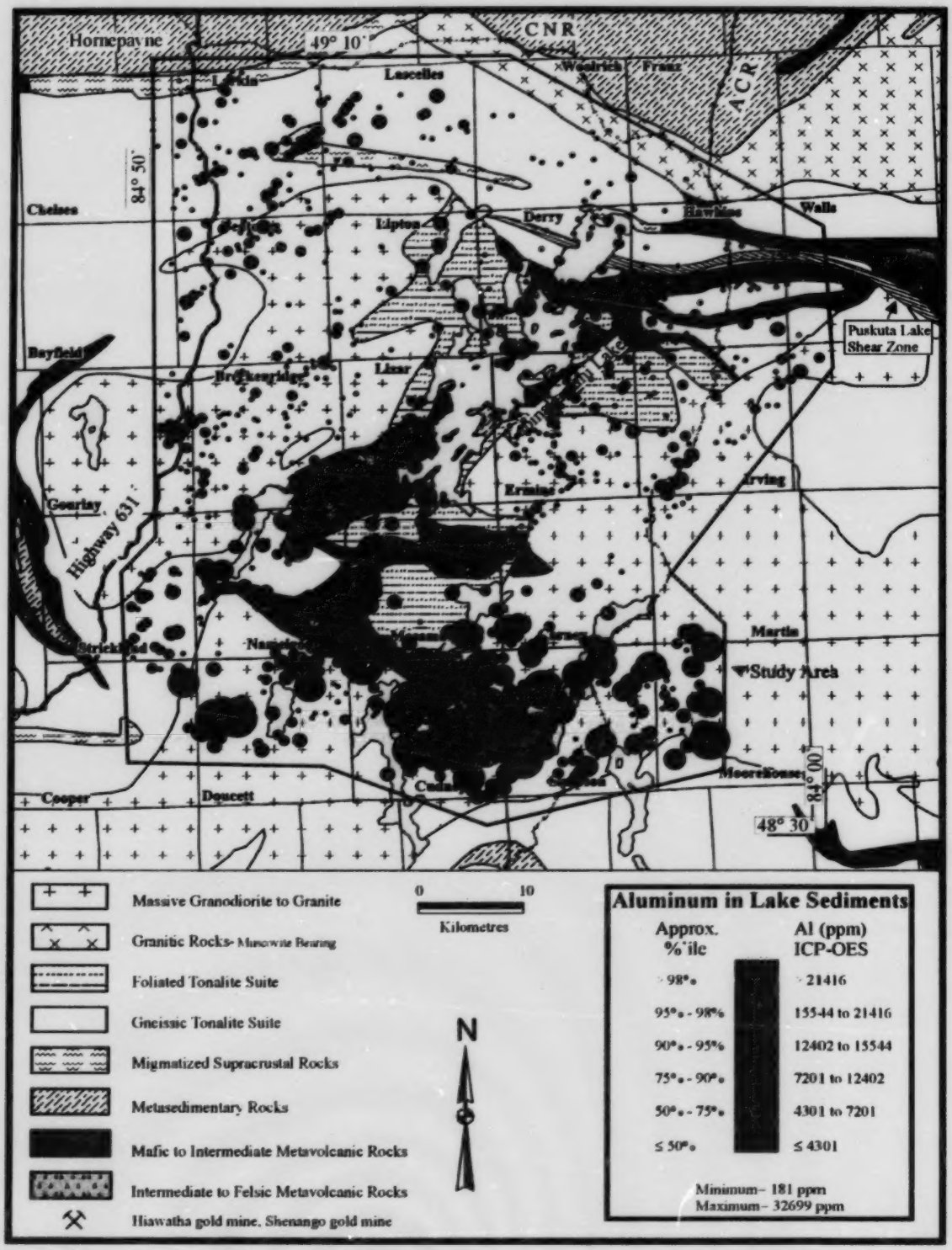
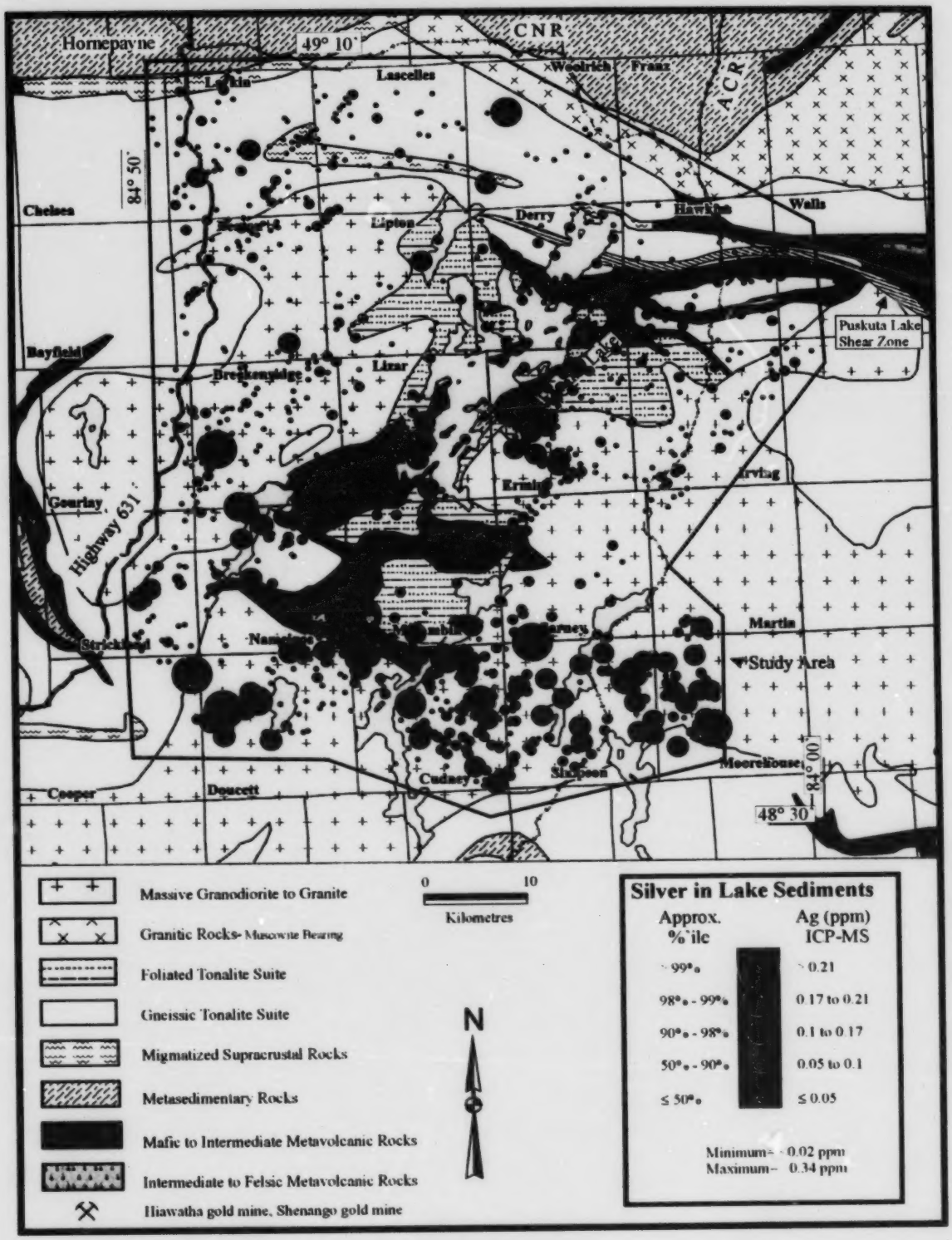
APPENDIX B

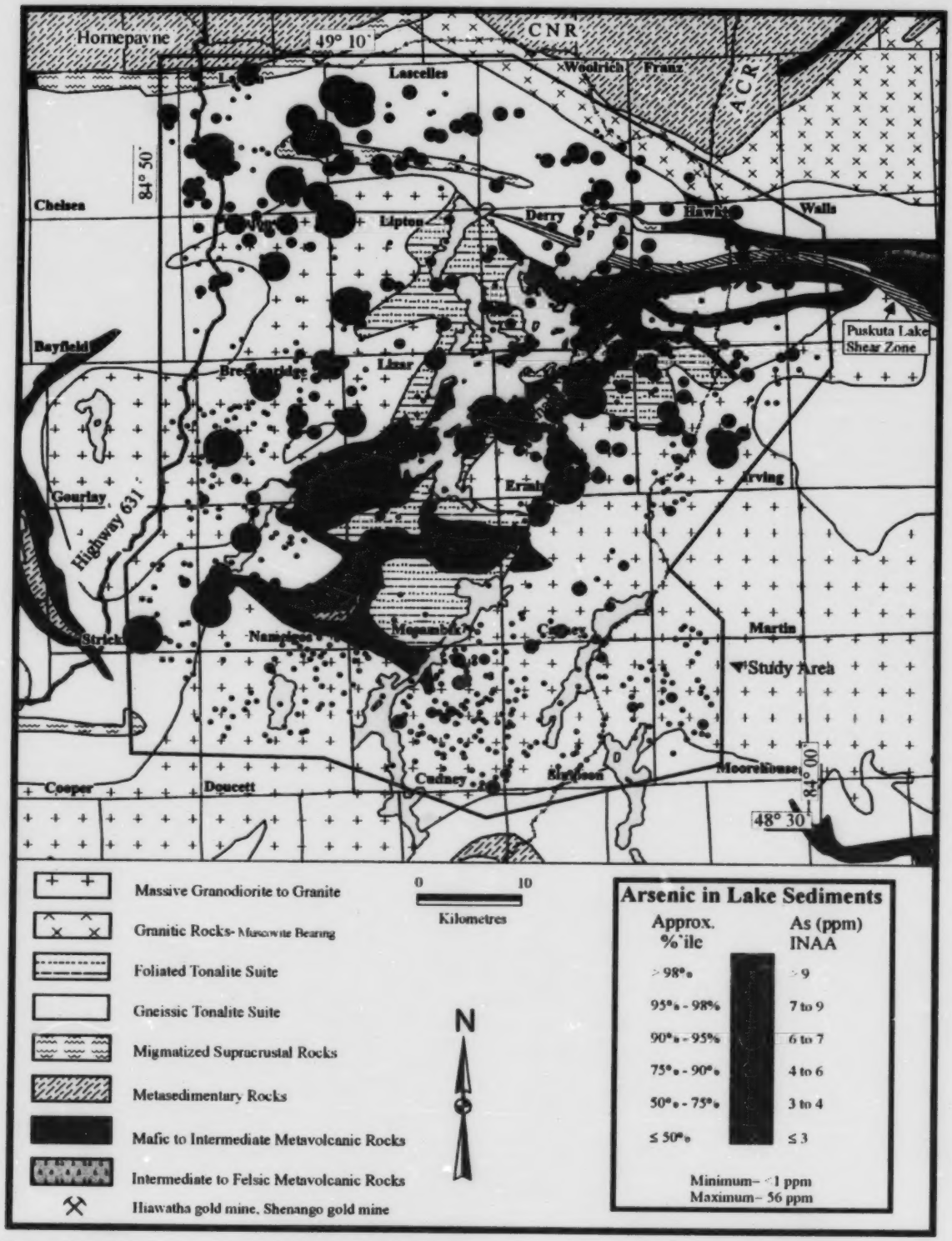
Lake sediment proportional dot maps for Al, Ag,
As, Au(INAA), Au(FA), Ba, Be, Ca, Cd, Co, Cr, Cs,
Cu, Fe, K, Li, LOI, Mg, Mn, Mo, Na, Nb, Ni, Pb, Pd,
P, Pt, Rb, total REEs, Sb, Sc, Sr, Ta, Th, Ti, U, V, W and Zn



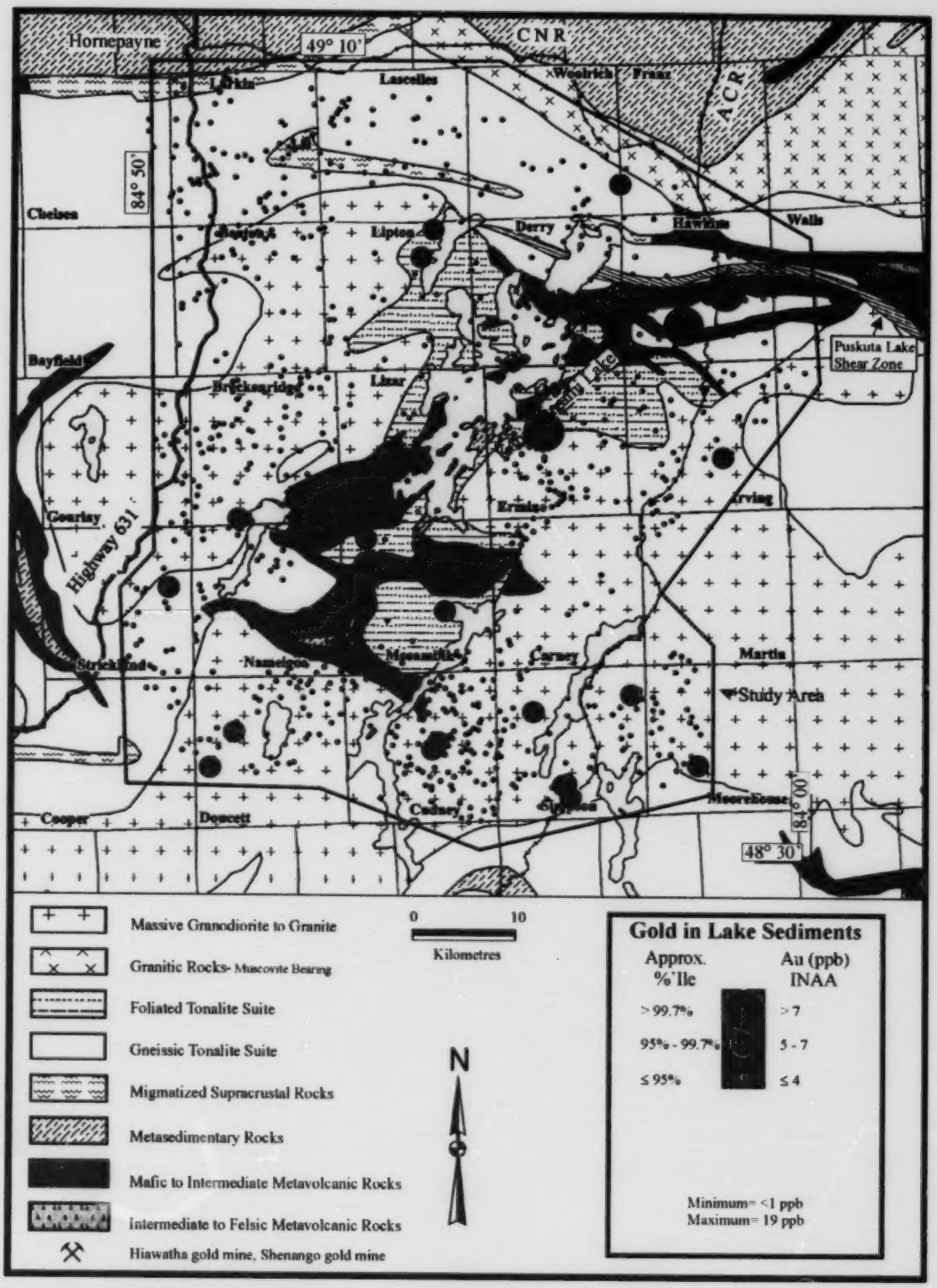
Proportional dot map of aluminum in lake sediments



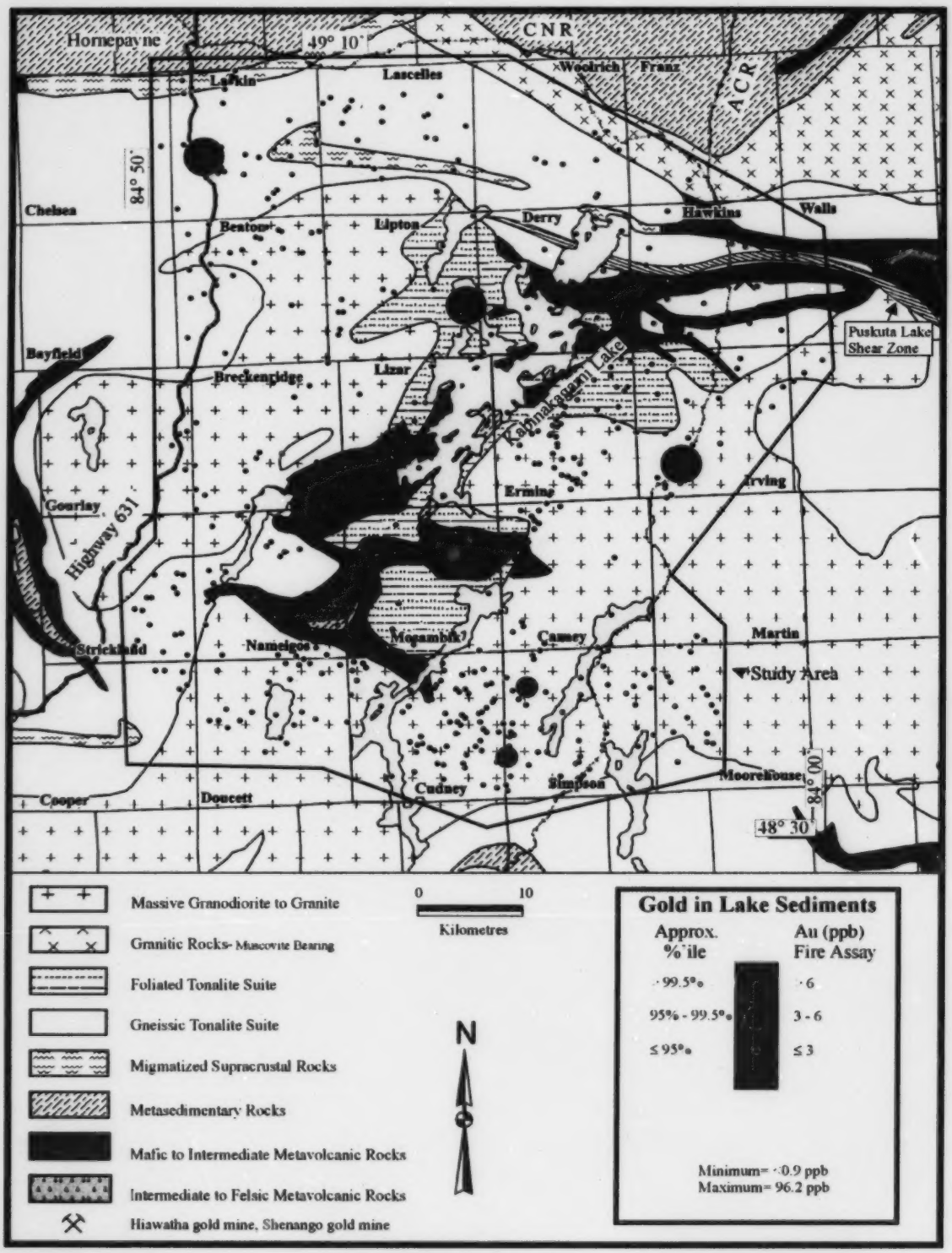
Proportional dot map of silver in lake sediments



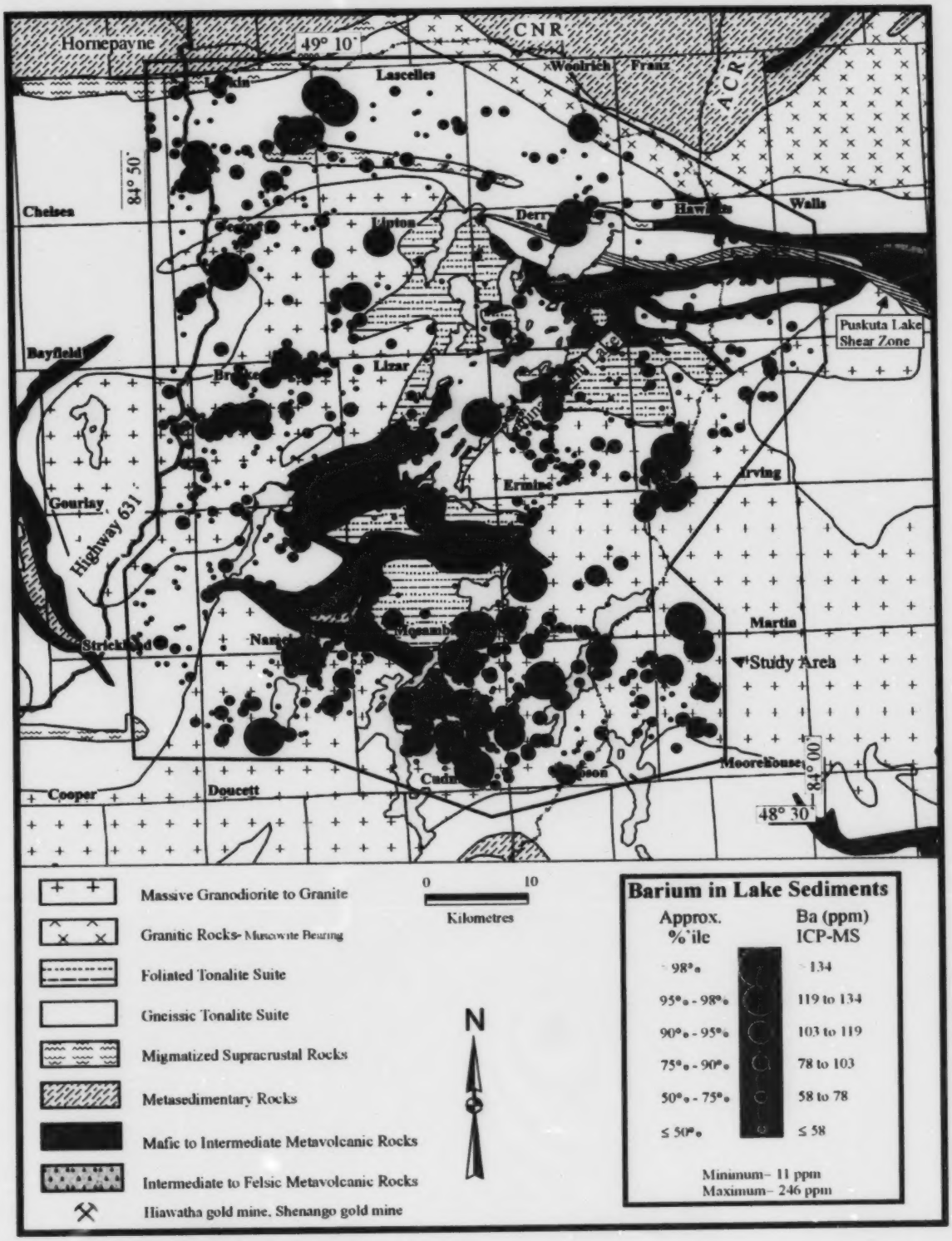
Proportional dot map of arsenic in lake sediments



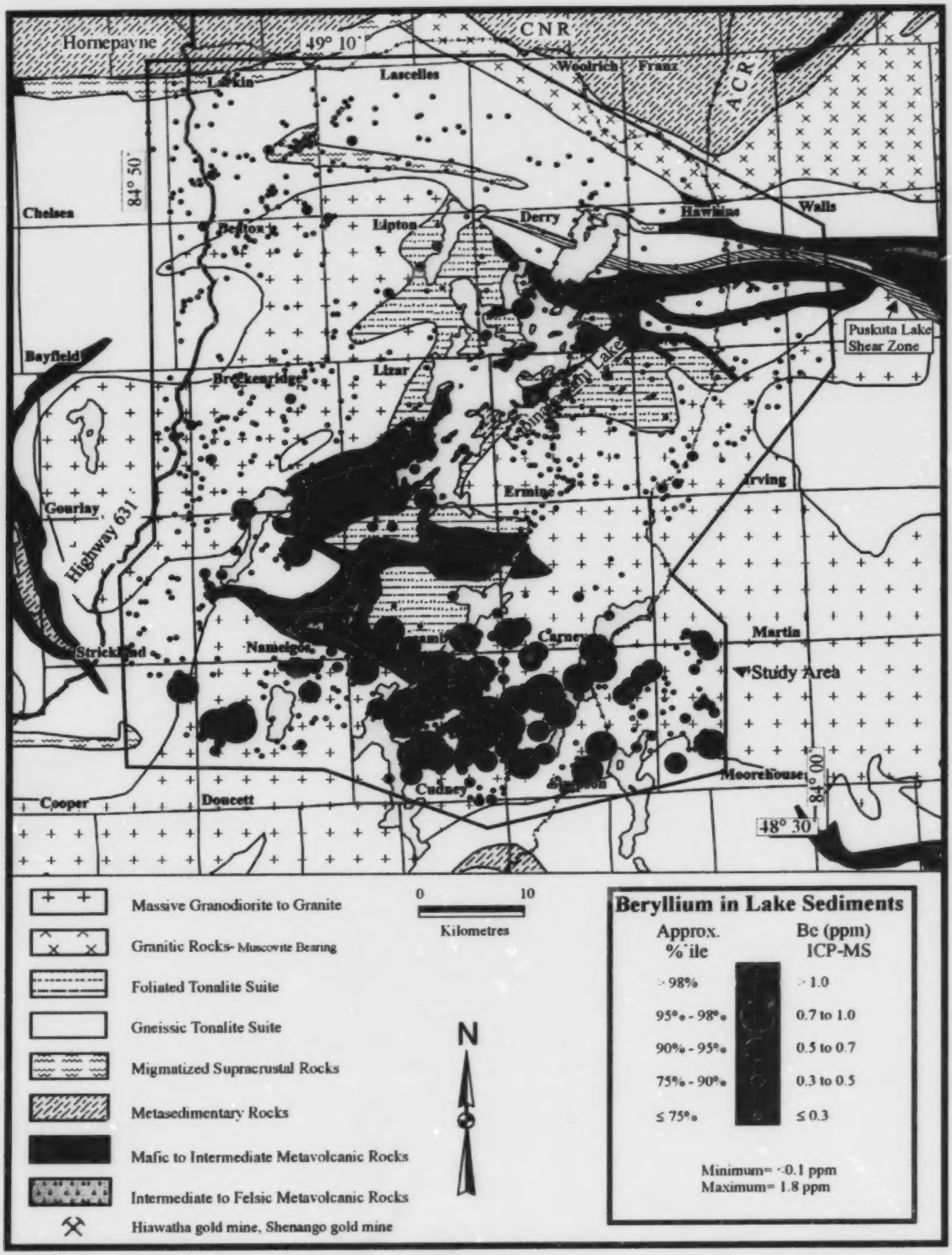
Proportional dot map of gold (INAA) in lake sediments



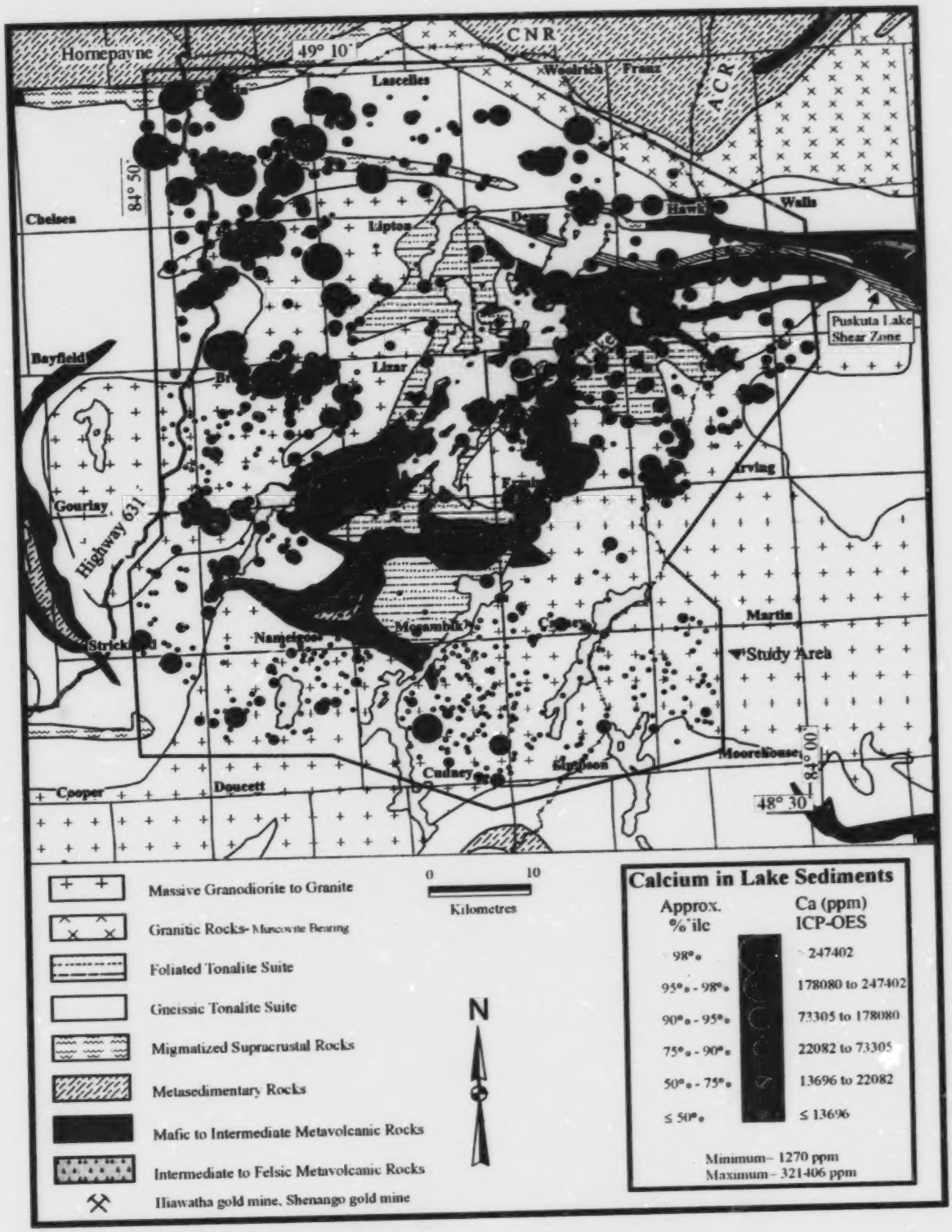
Proportional dot map of gold (fire assay) in lake sediments



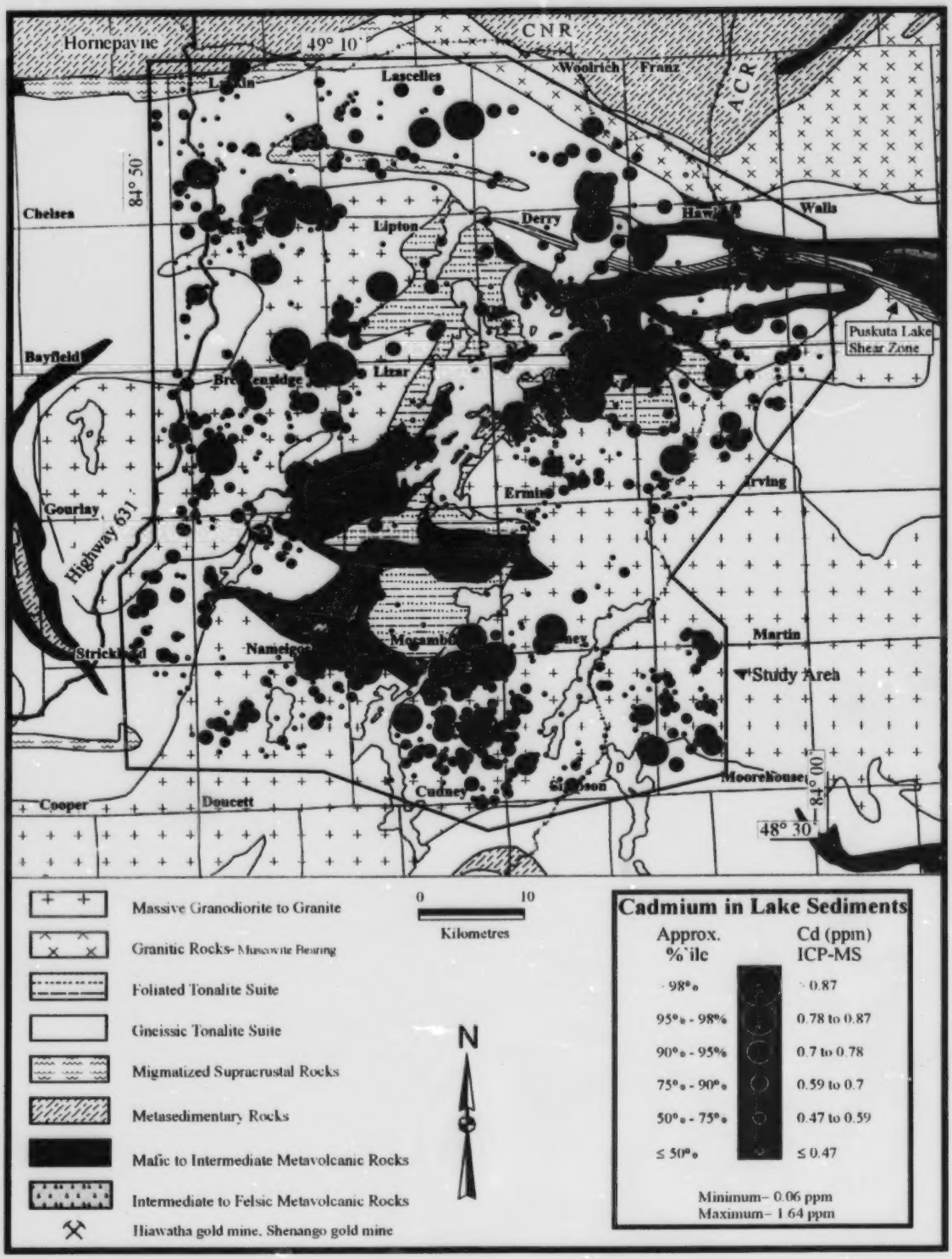
Proportional dot map of barium in lake sediments



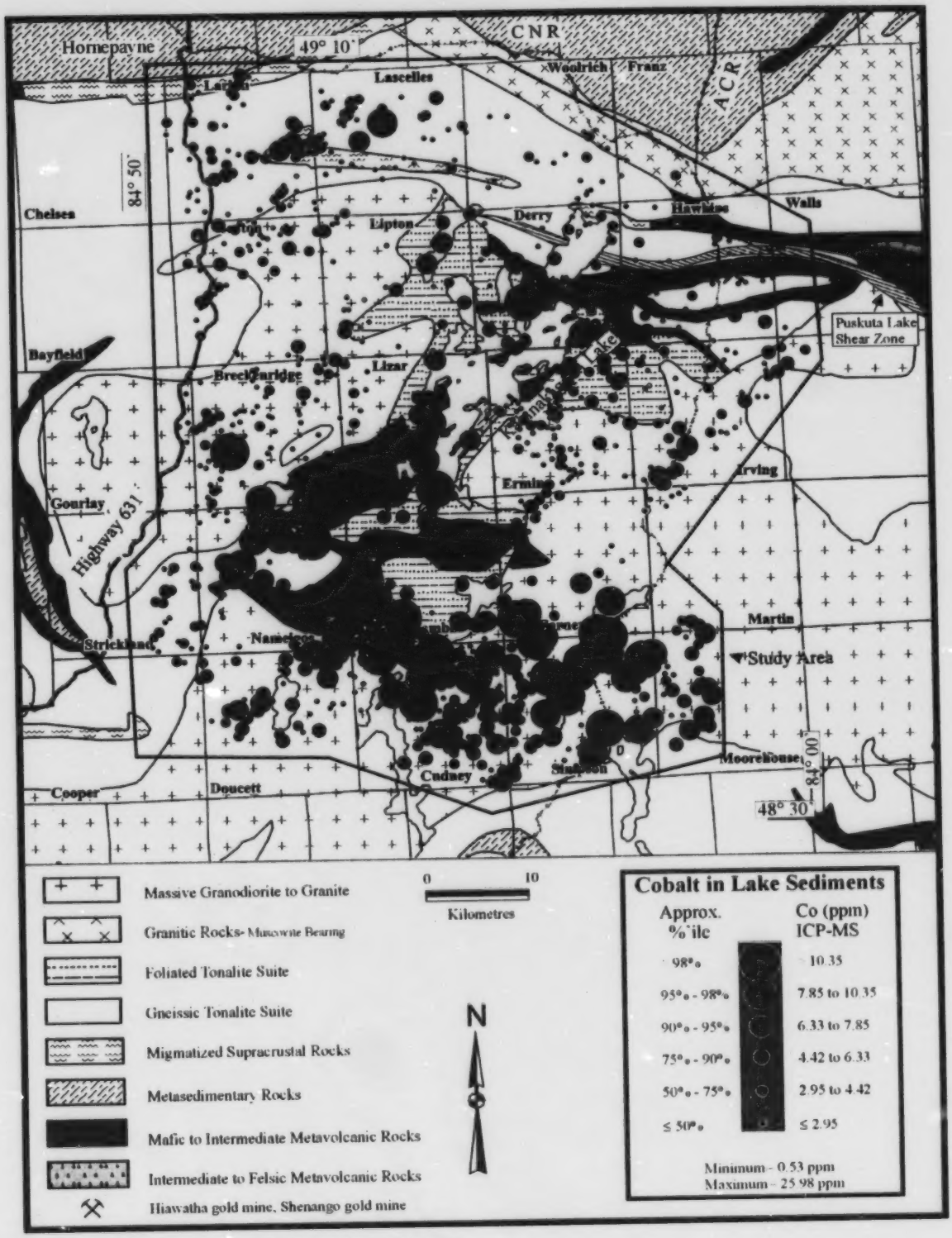
Proportional dot map of beryllium in lake sediments



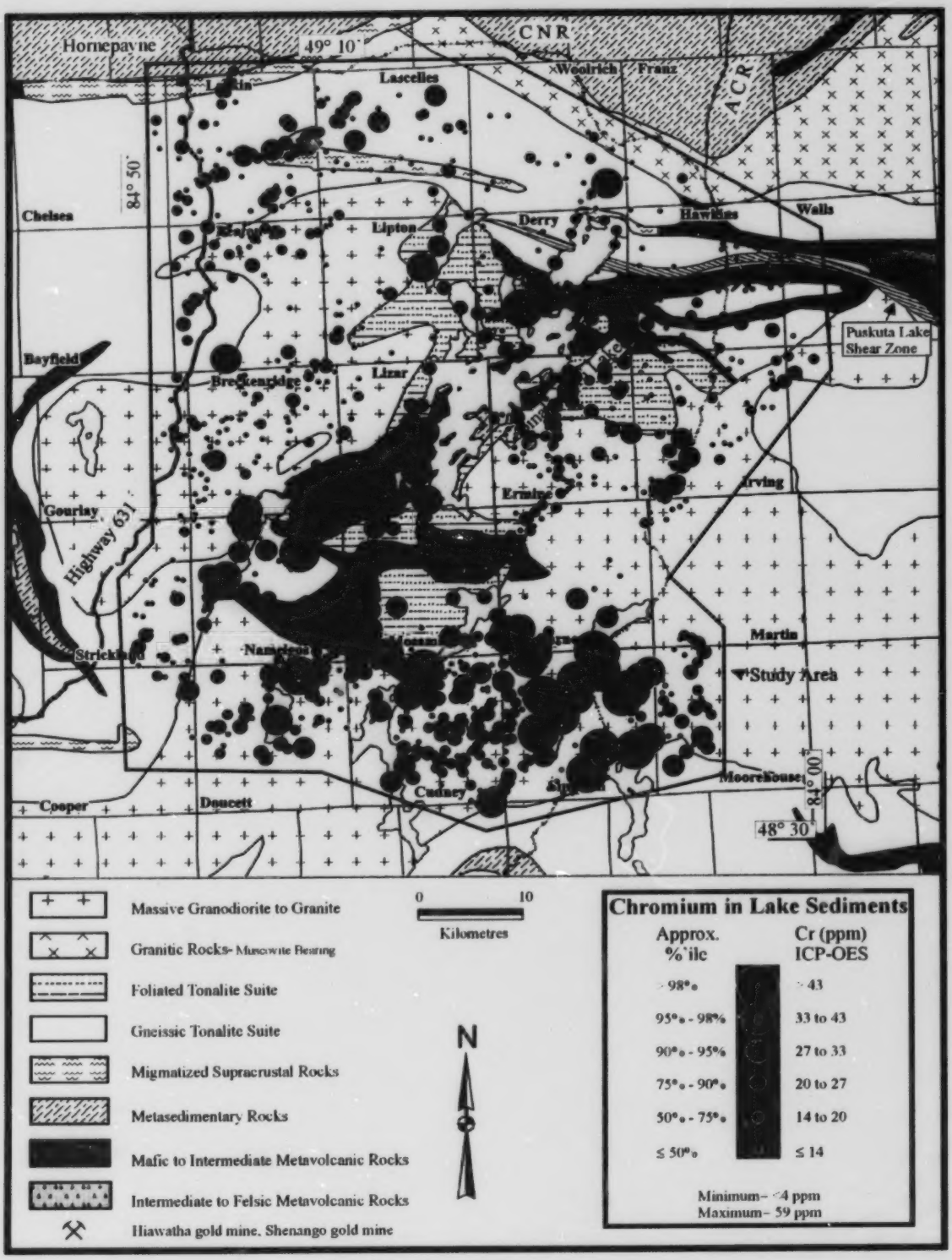
Proportional dot map of calcium in lake sediments



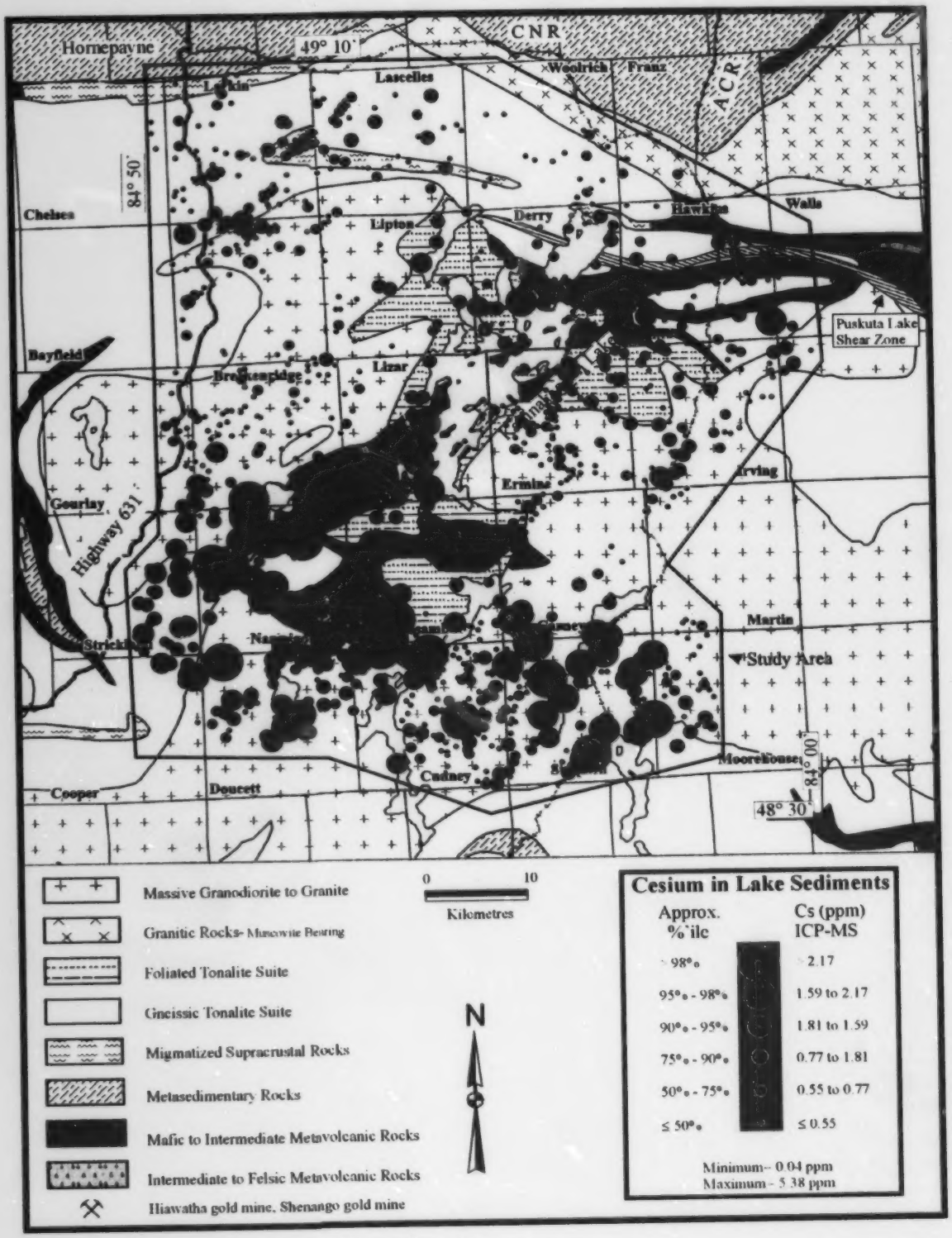
Proportional dot map of cadmium in lake sediments



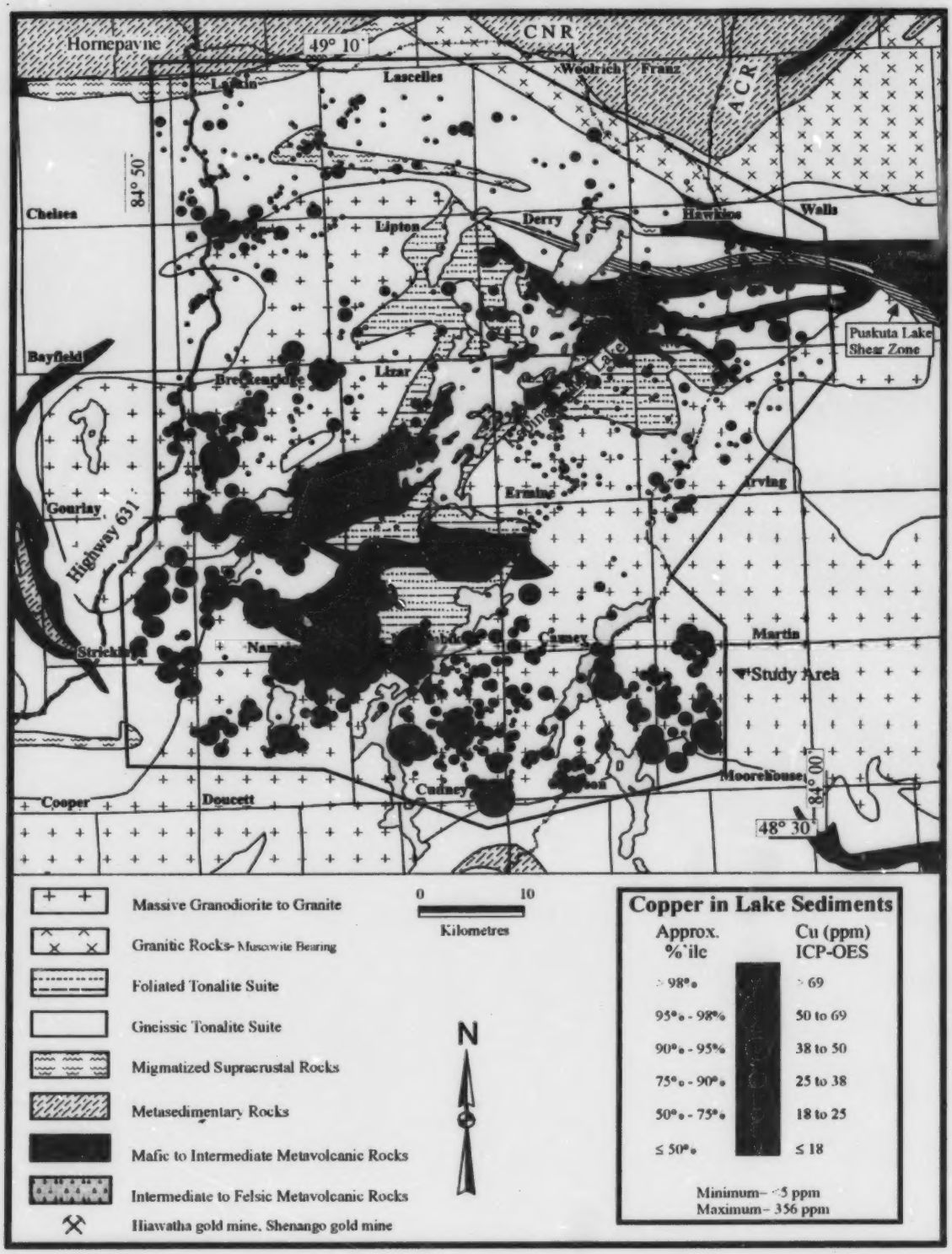
Proportional dot map of cobalt in lake sediments



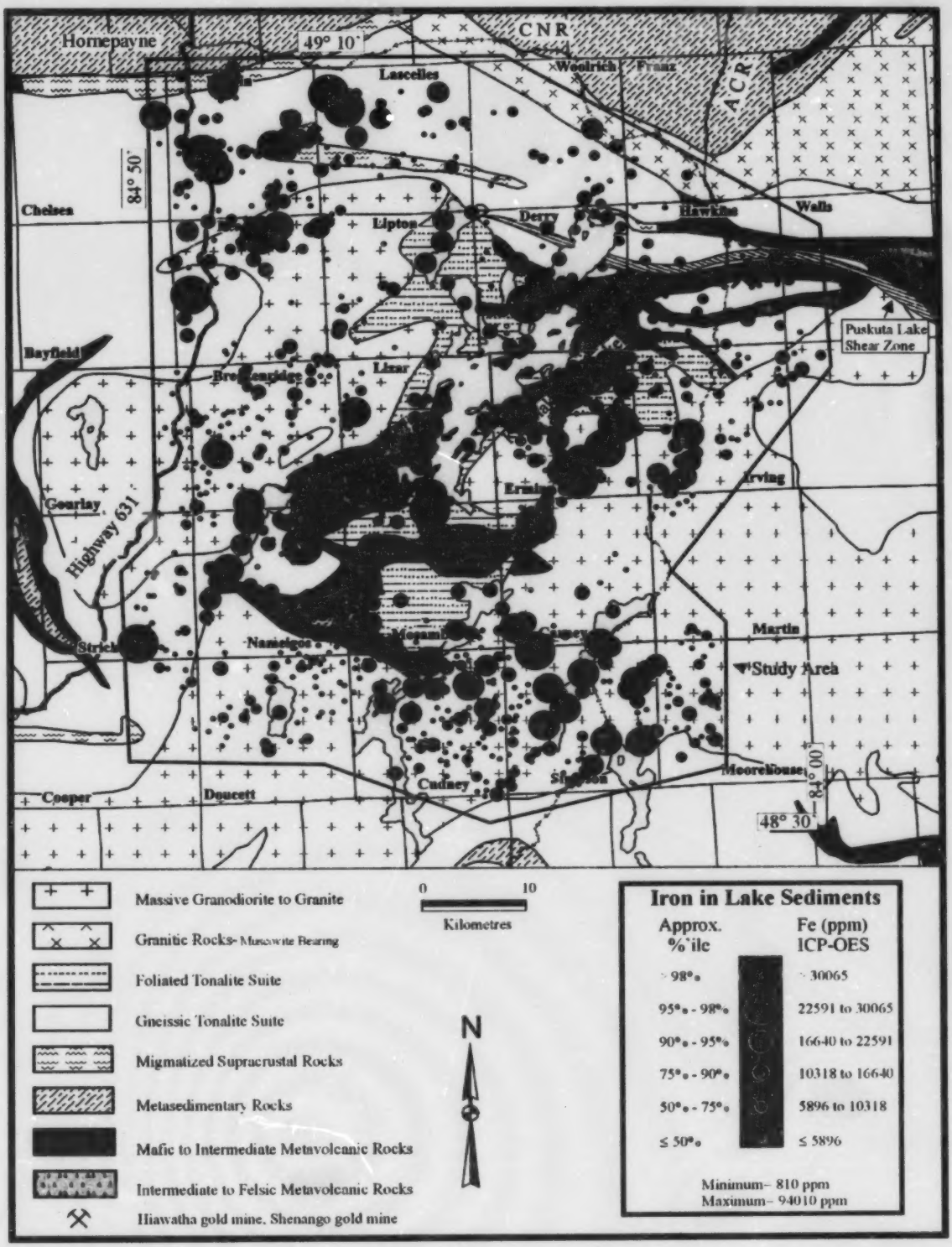
Proportional dot map of chromium in lake sediments



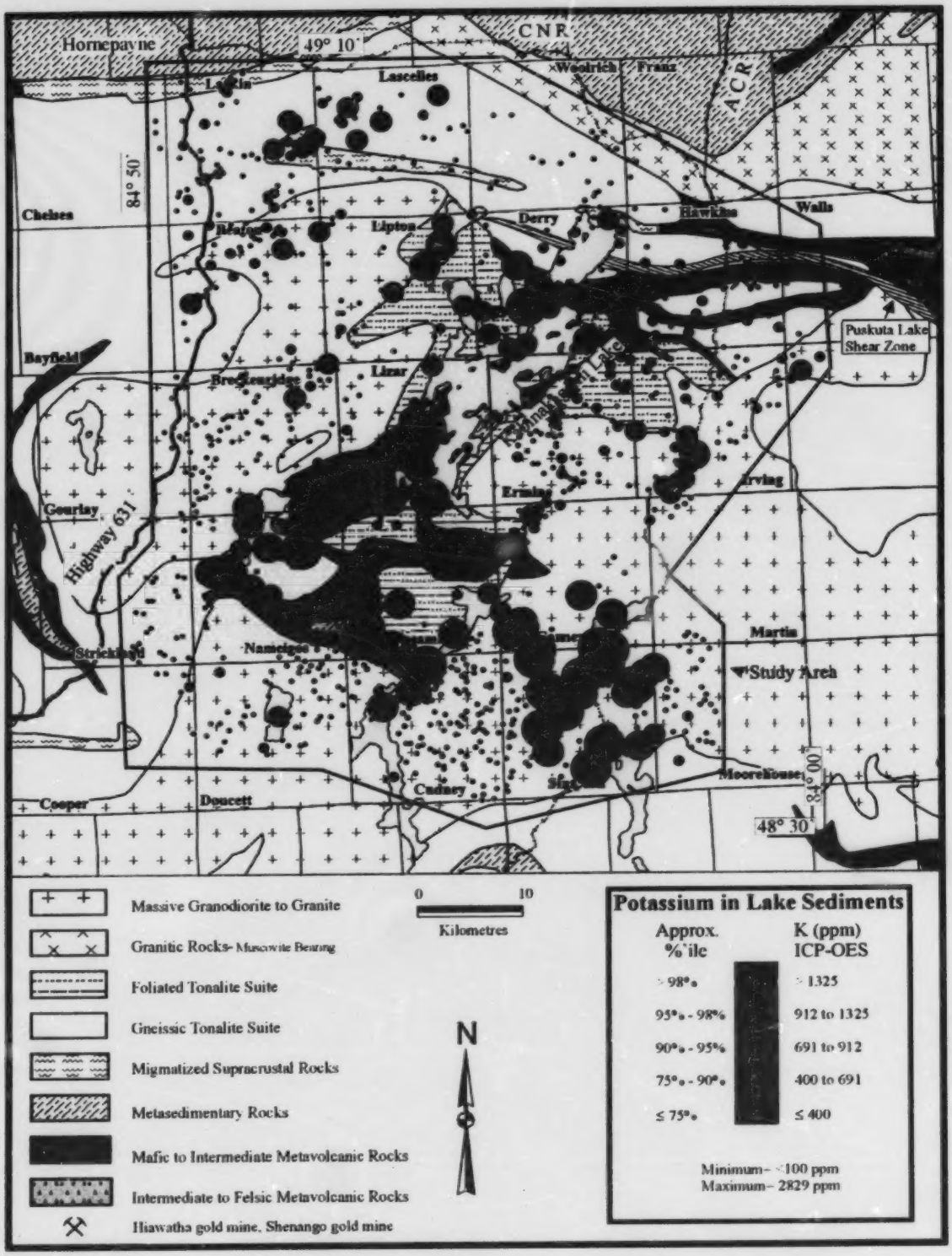
Proportional dot map of cesium in lake sediments



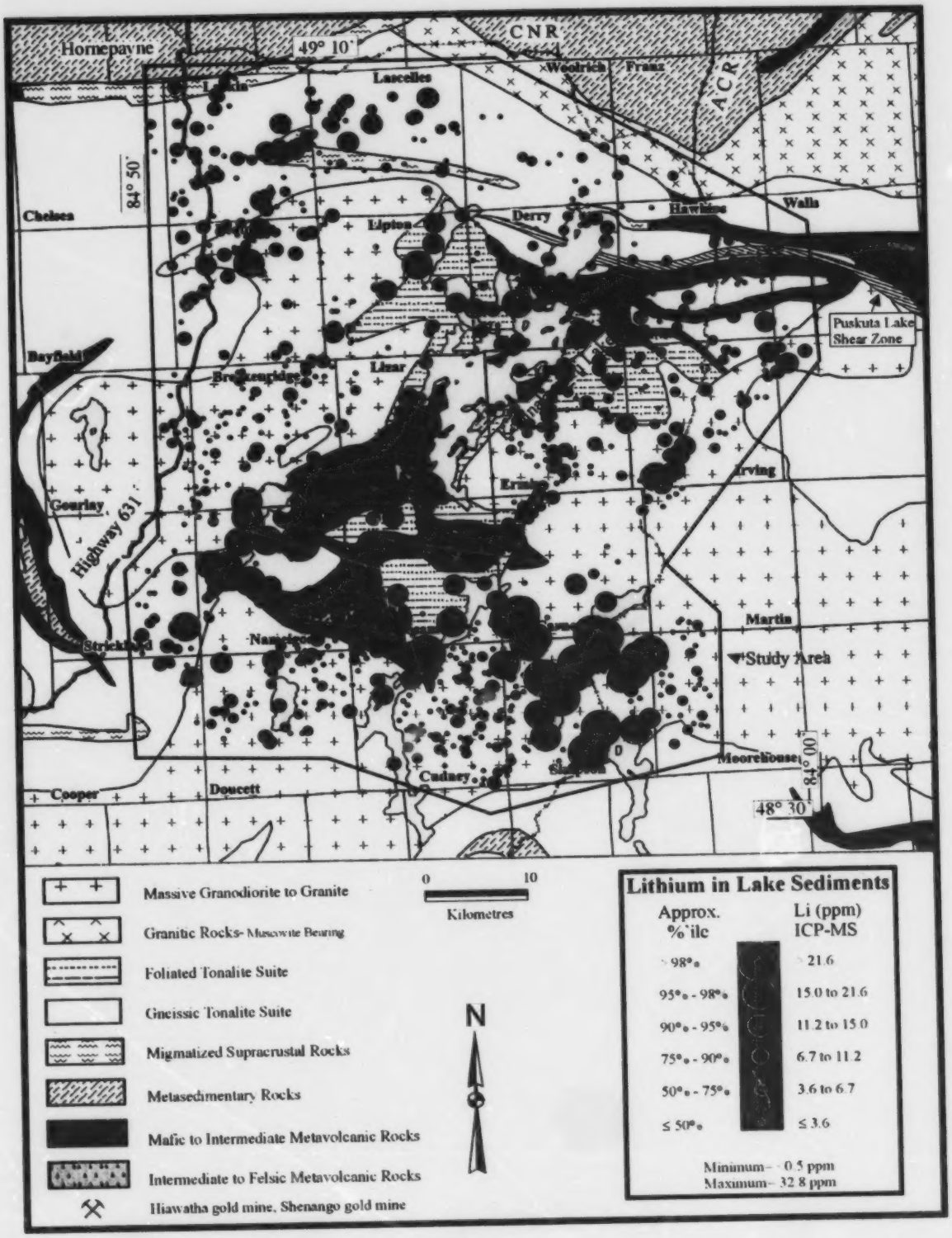
Proportional dot map of copper in lake sediments



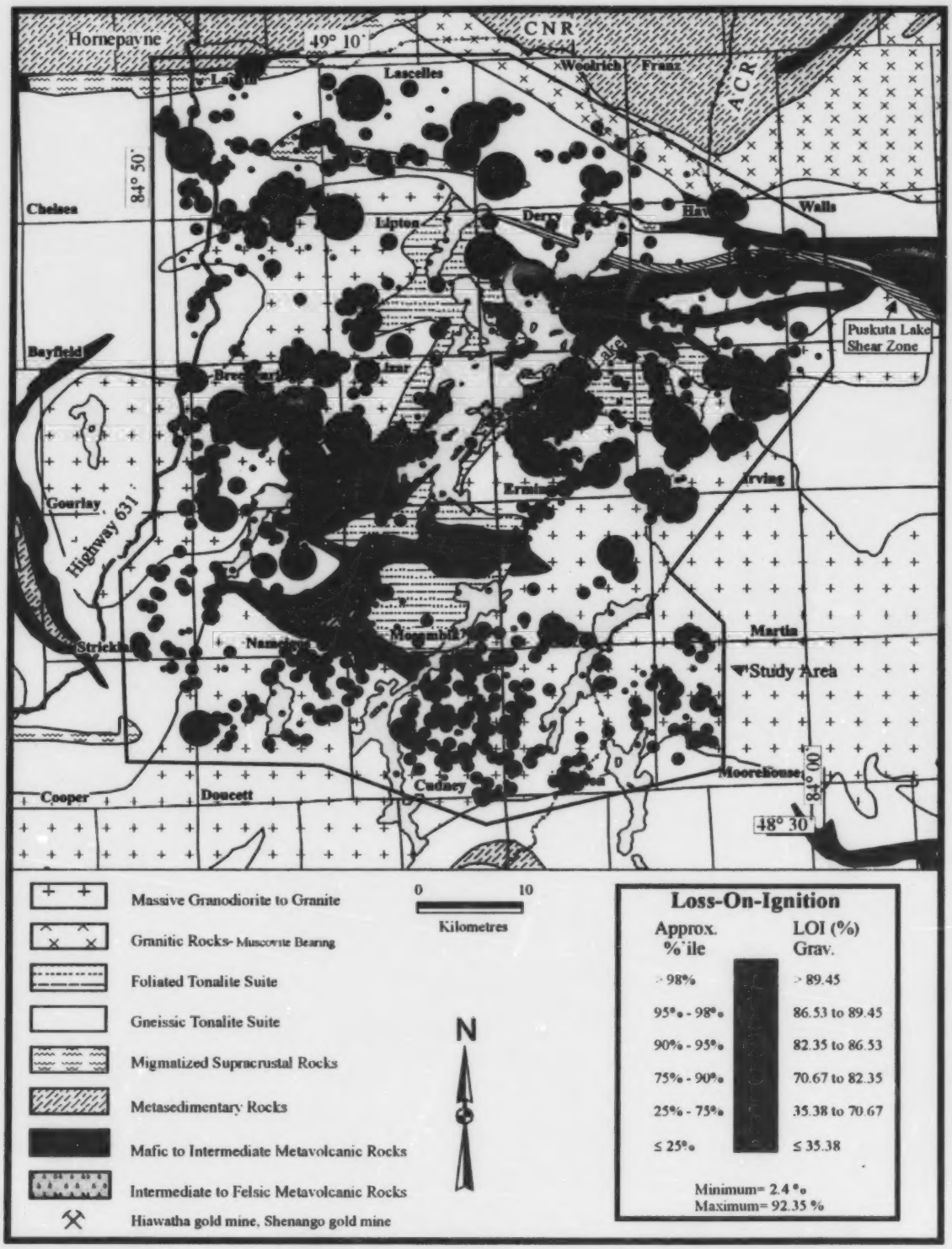
Proportional dot map of iron in lake sediments



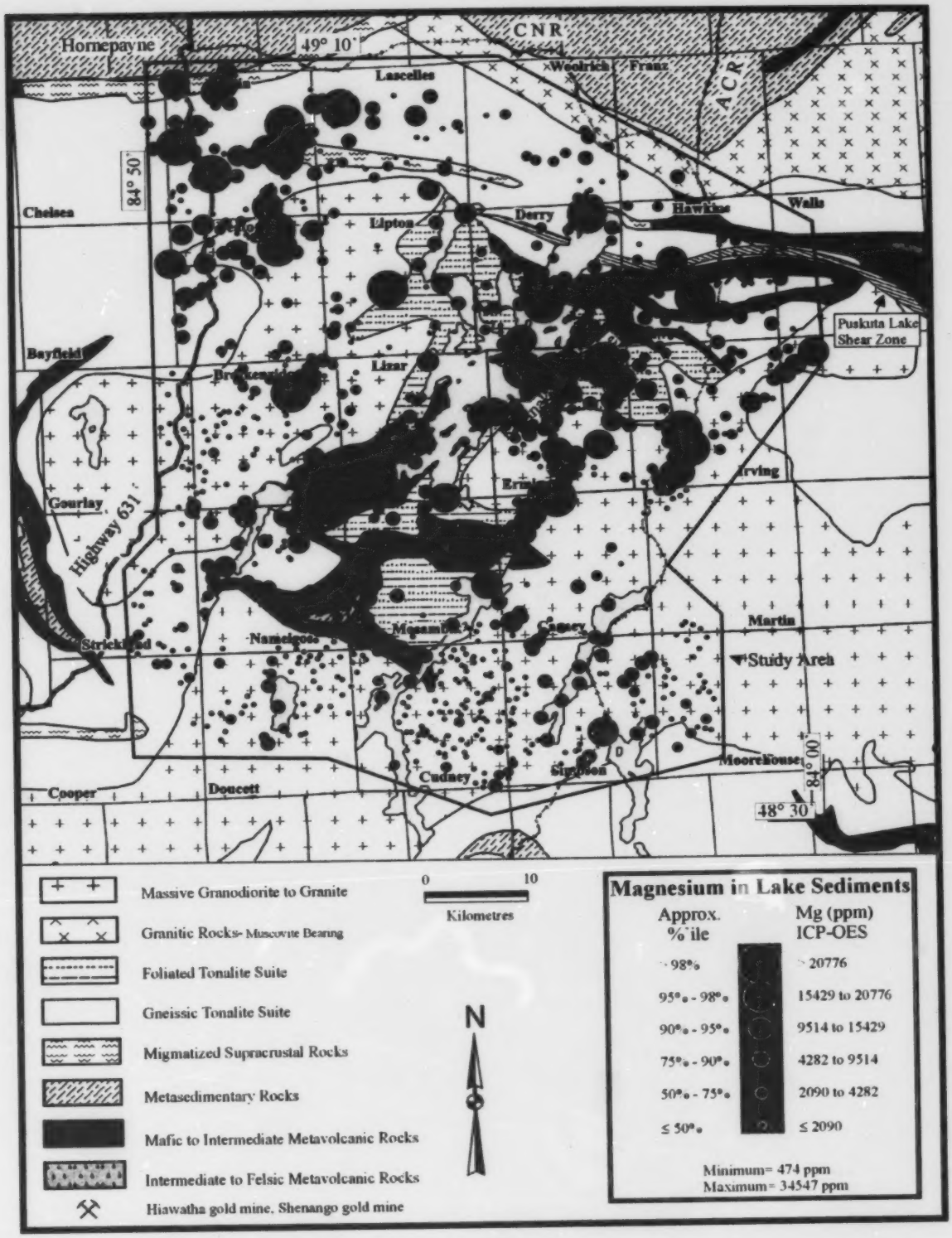
Proportional dot map of potassium in lake sediments



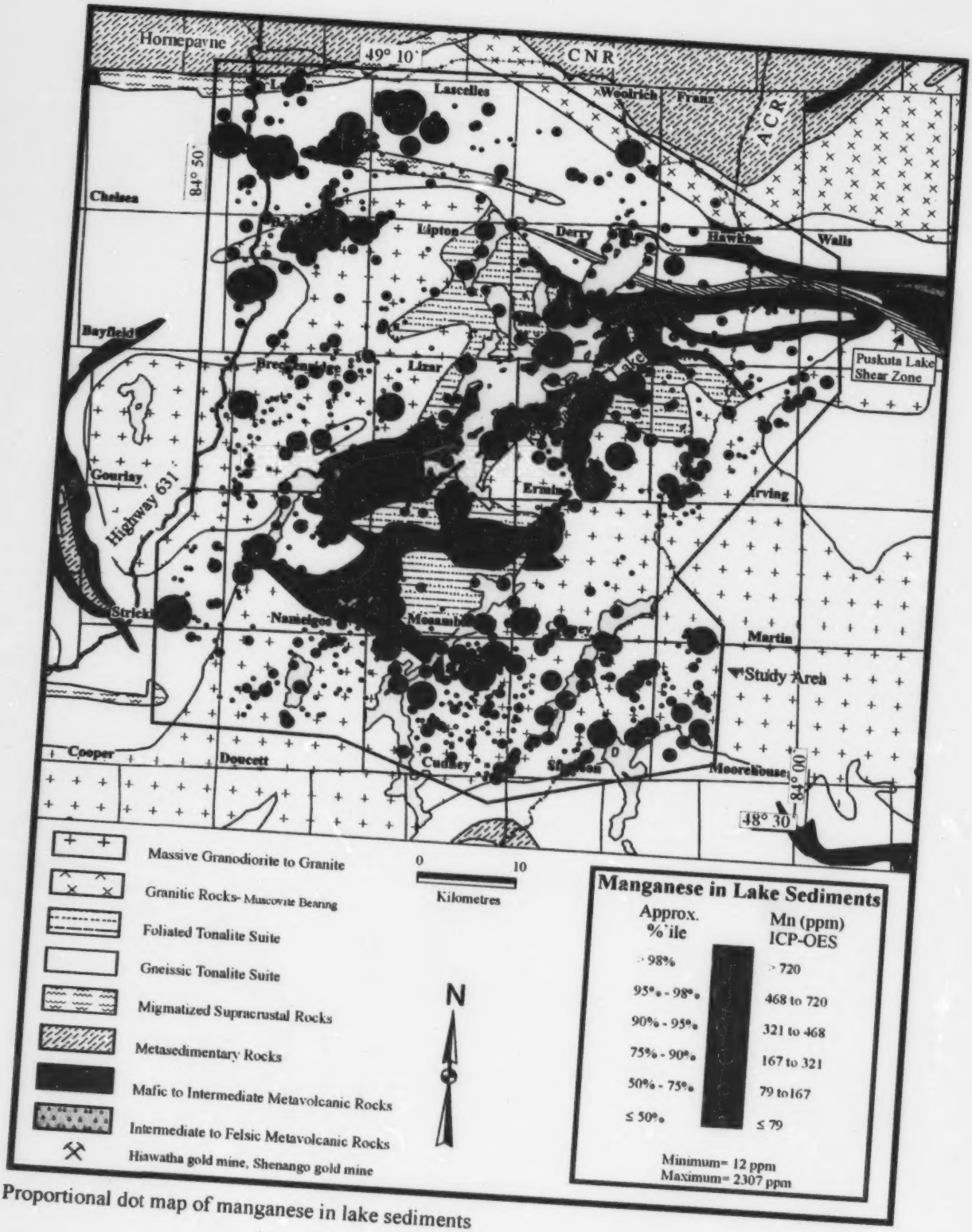
Proportional dot map of lithium in lake sediments



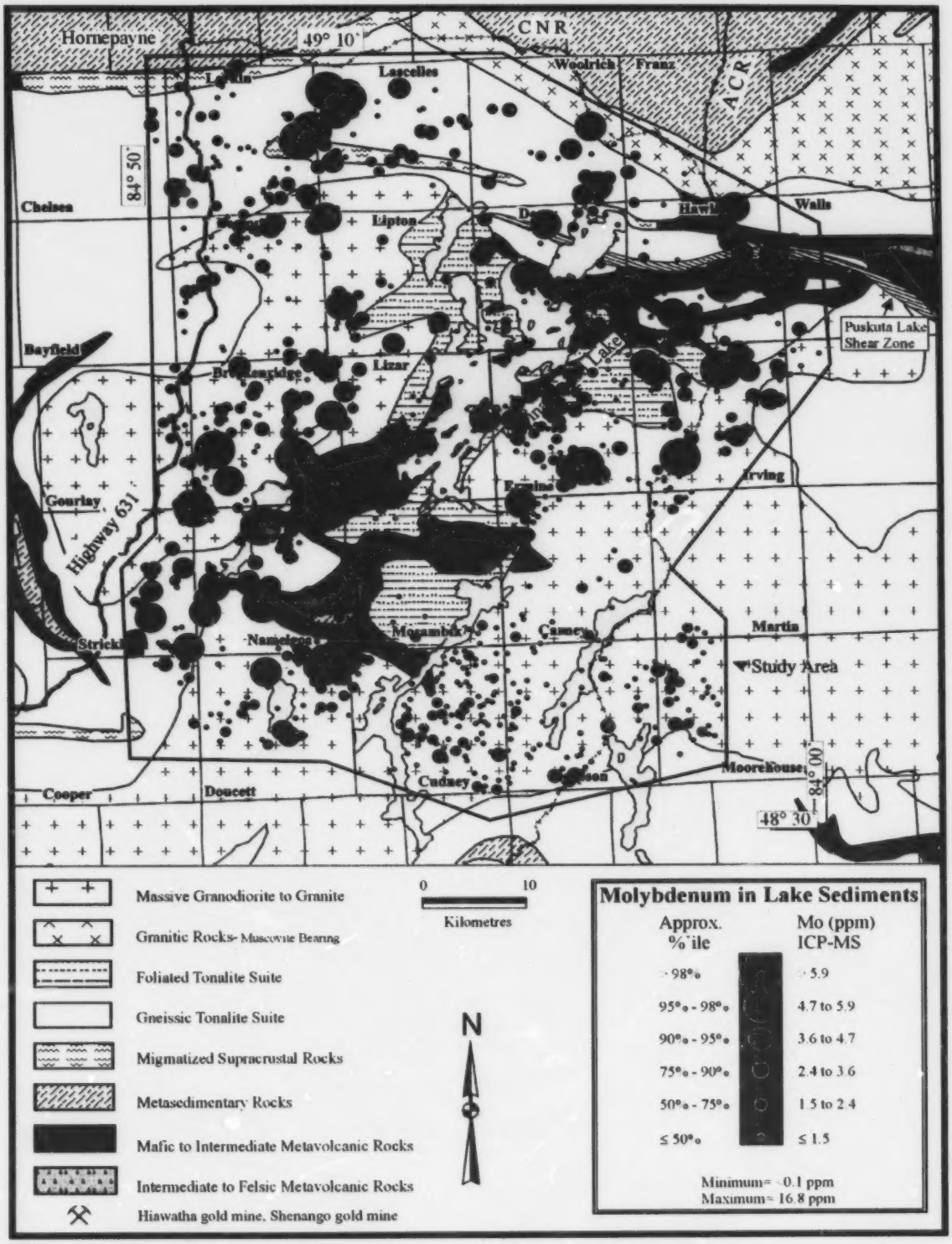
Proportional dot map of Loss-On-Ignition



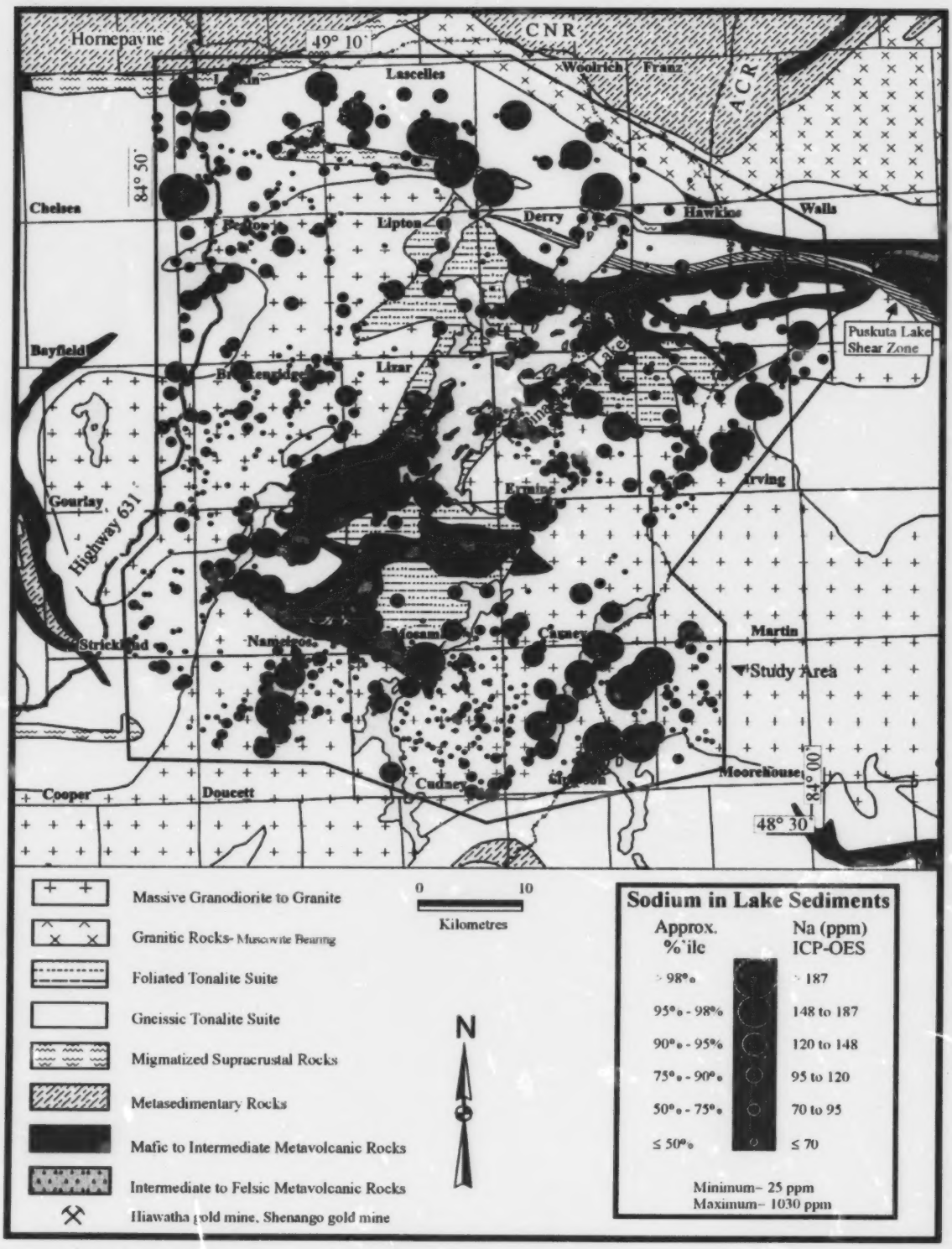
Proportional dot map of magnesium in lake sediments



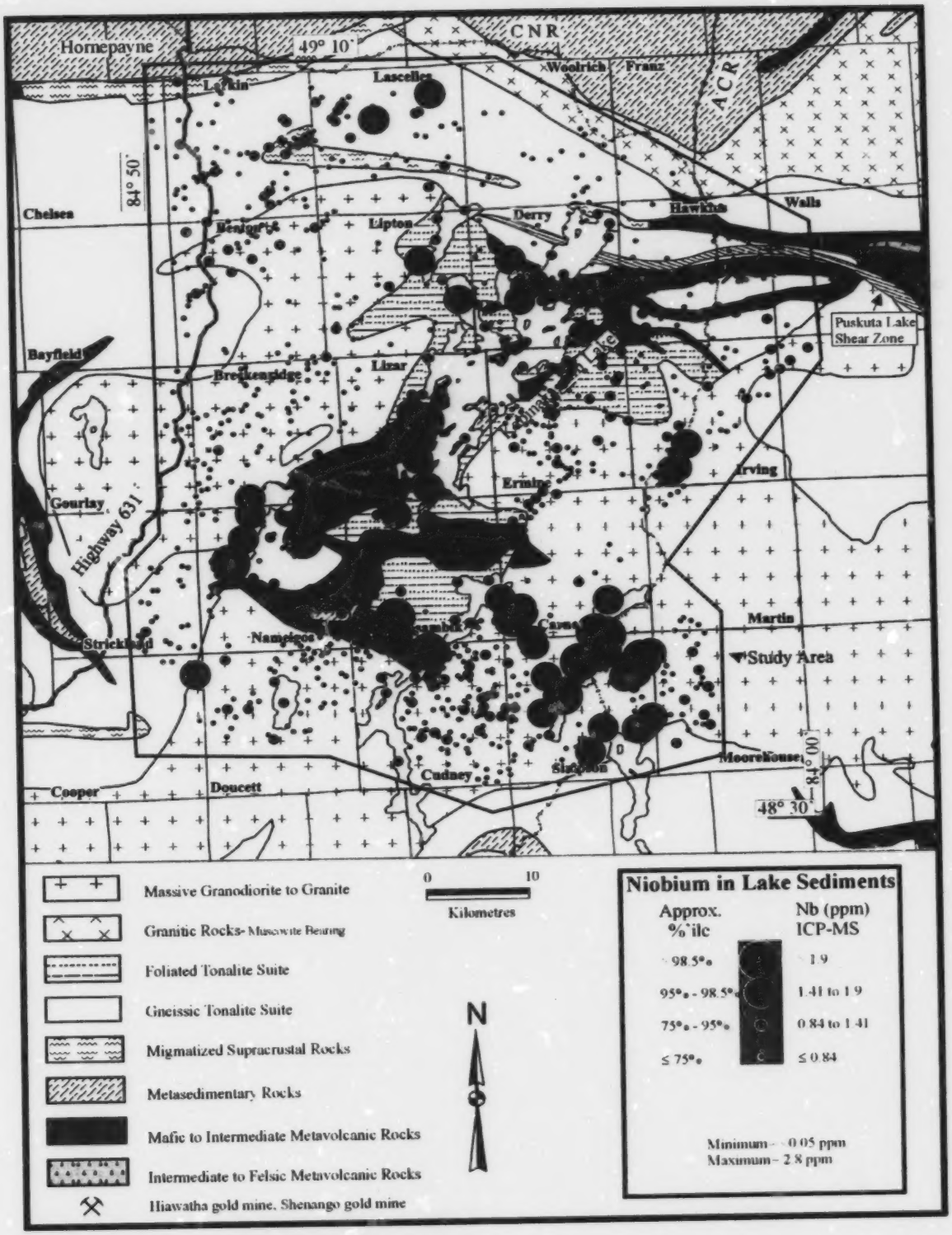
Proportional dot map of manganese in lake sediments



Proportional dot map of molybdenum in lake sediments



Proportional dot map of sodium in lake sediments



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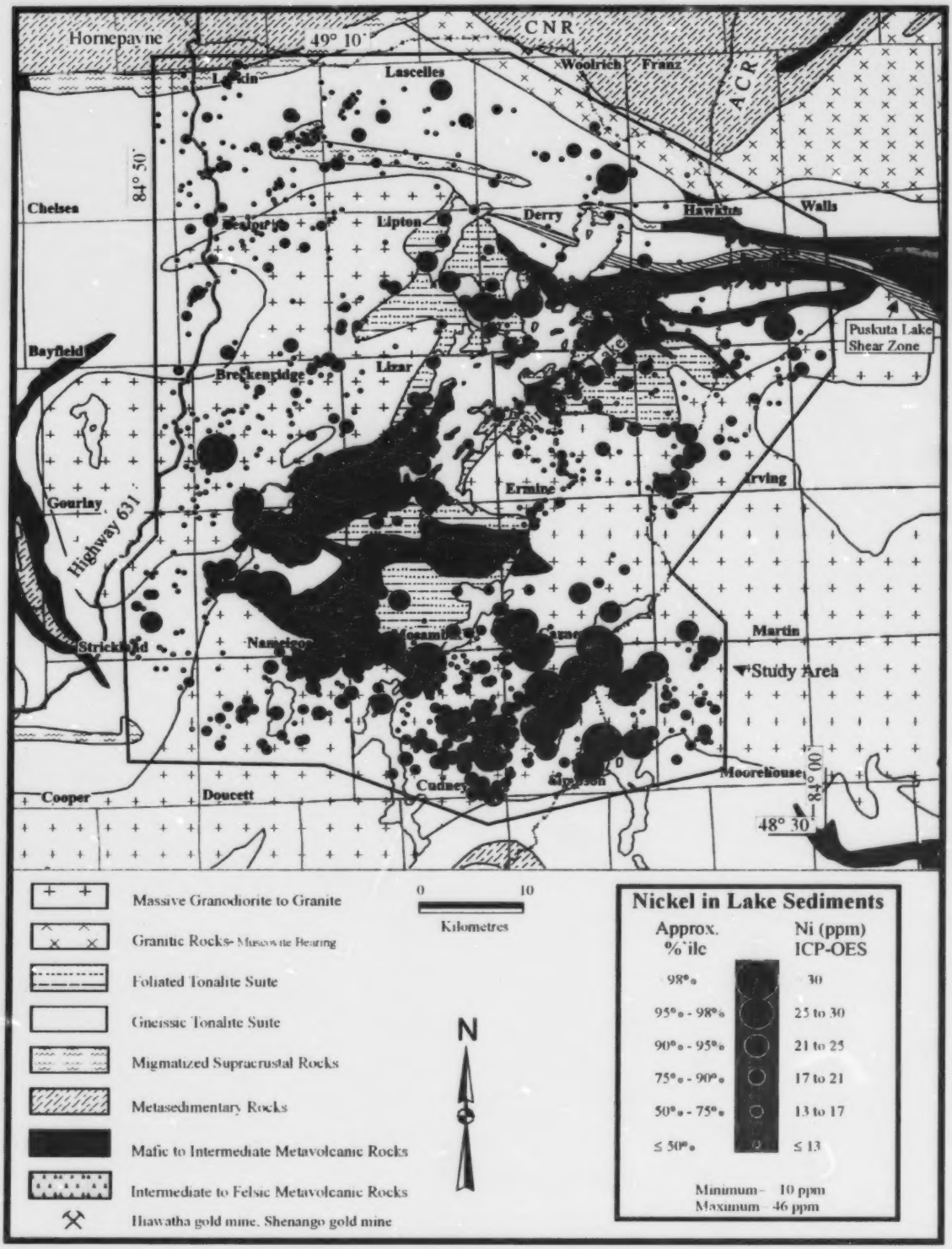
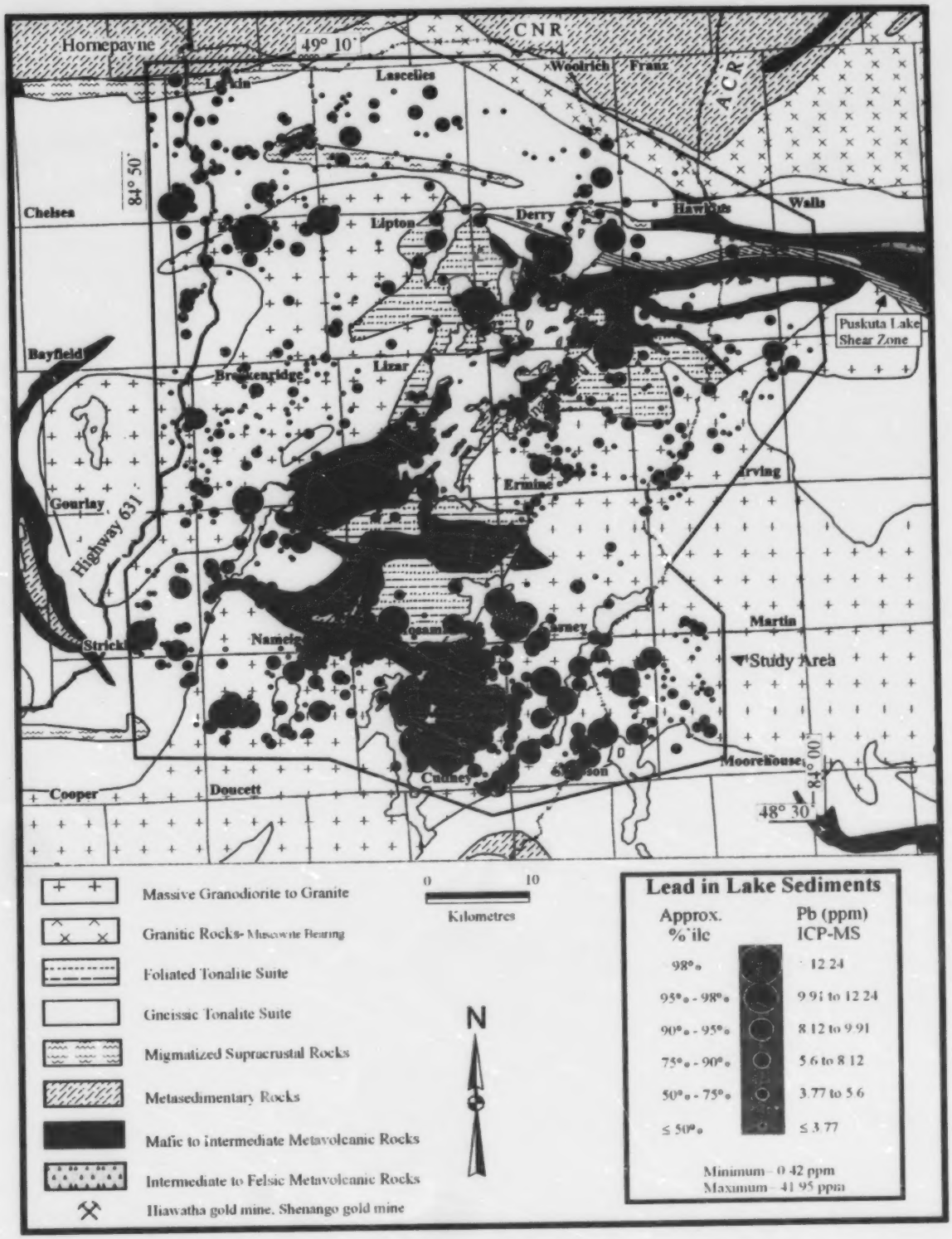
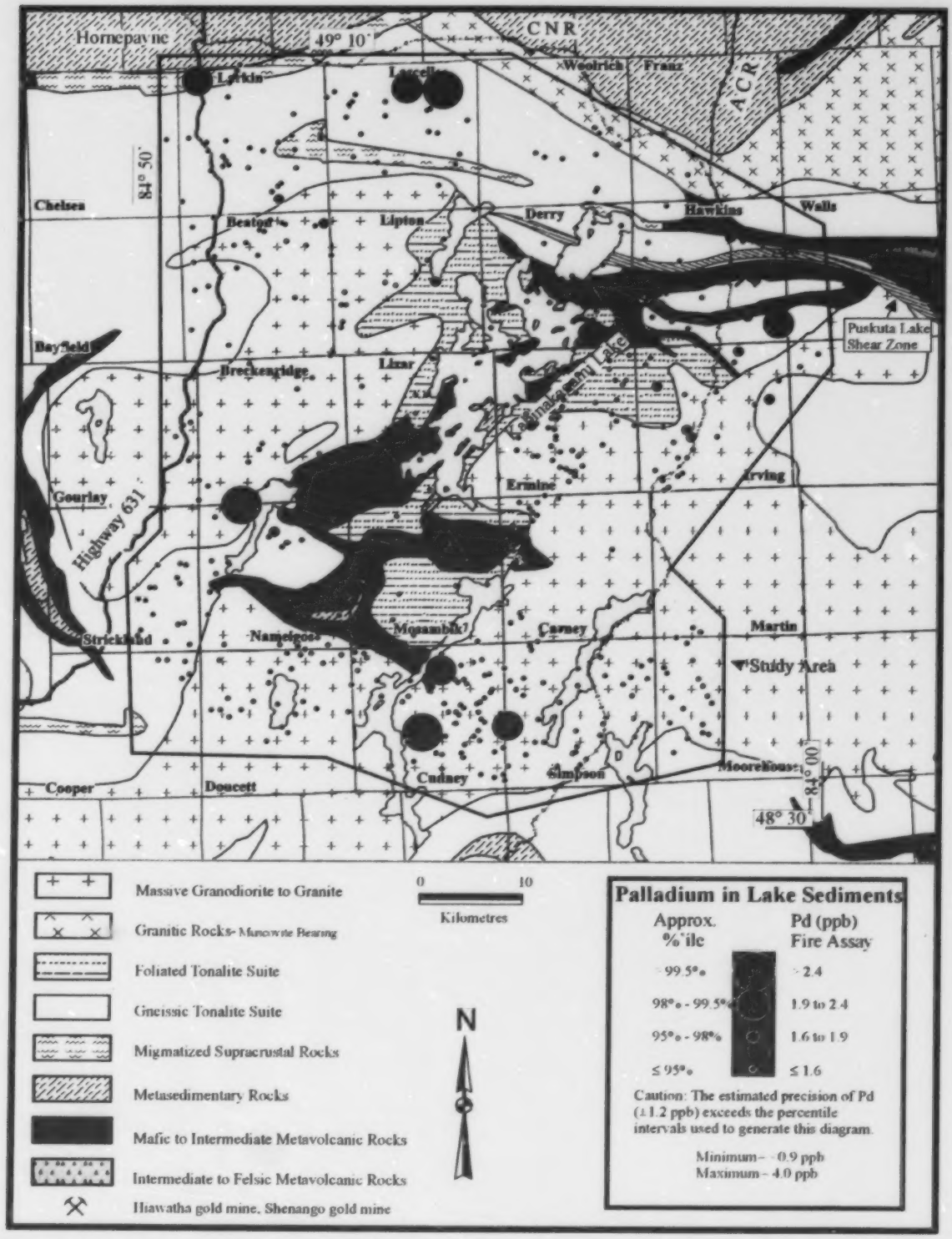


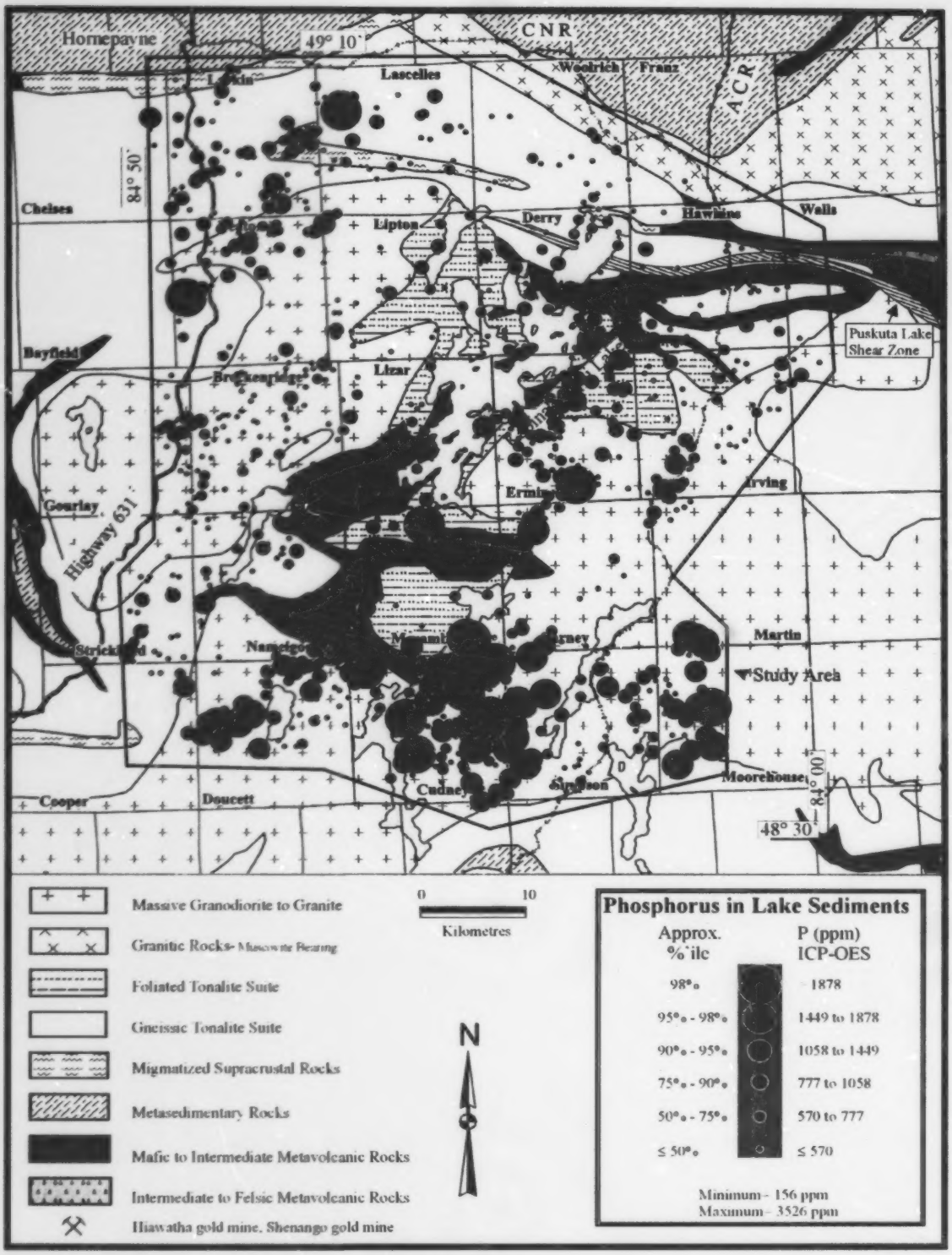
Proportional dot map of nickel in lake sediments



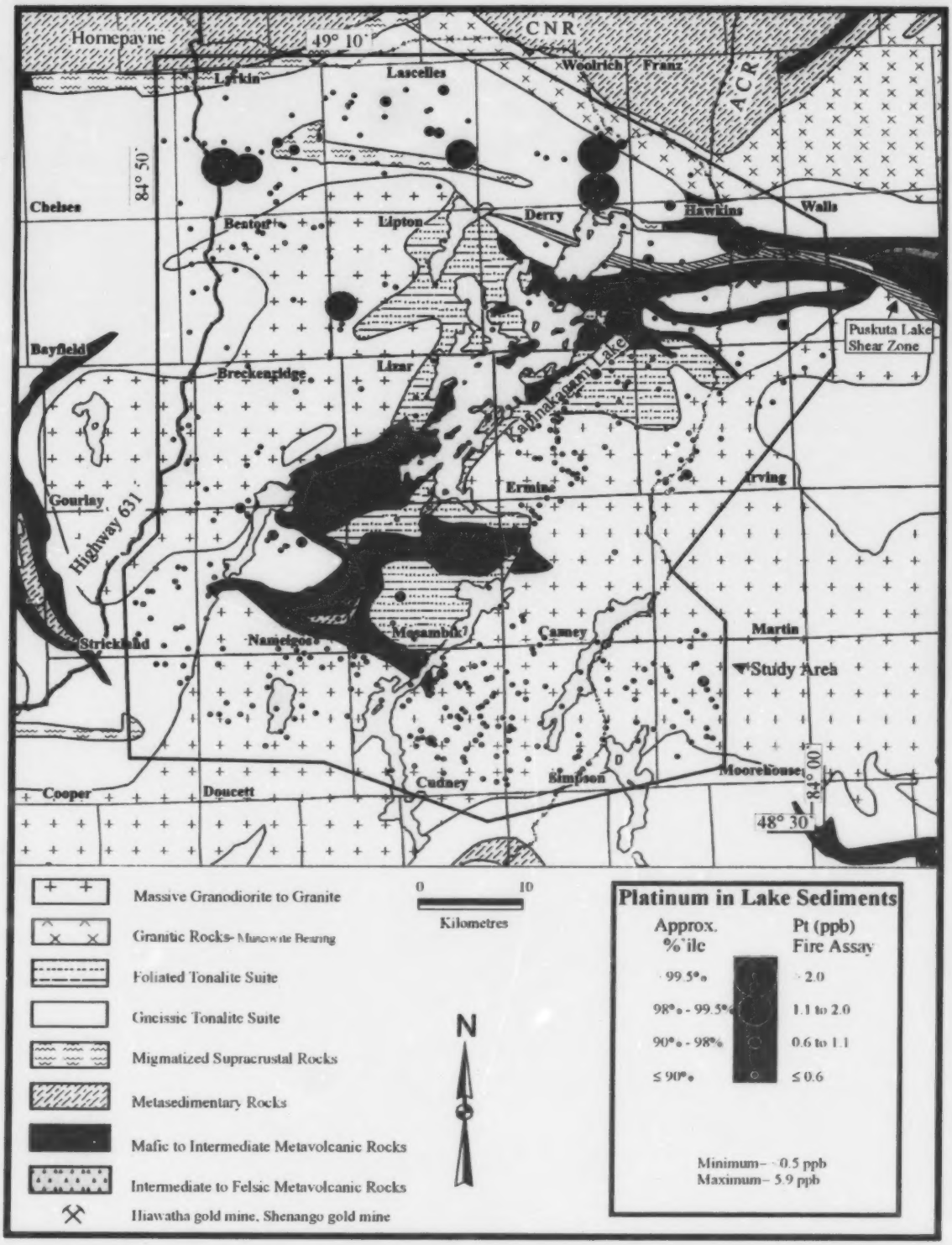
Proportional dot map of lead in lake sediments



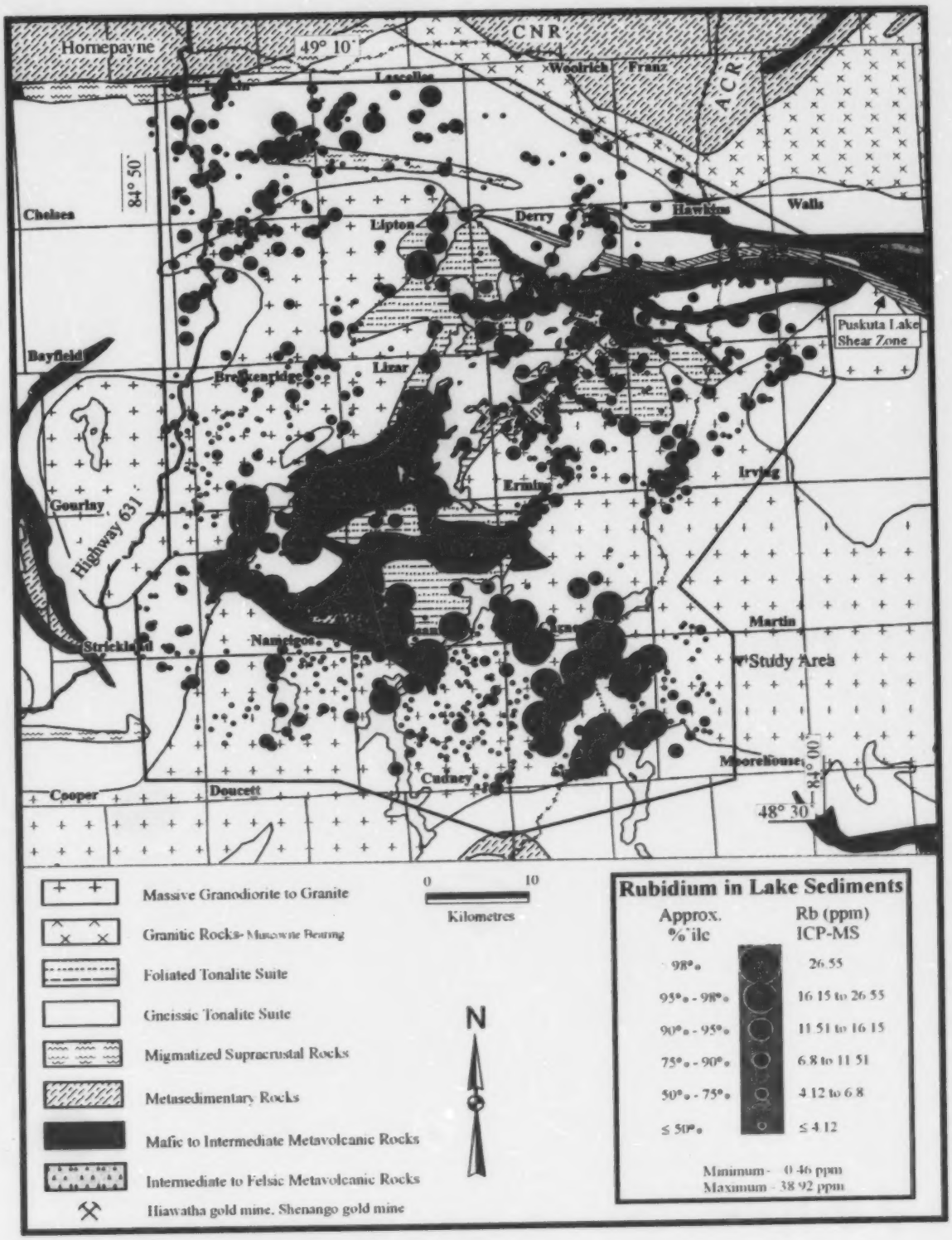
Proportional dot map of palladium in lake sediments



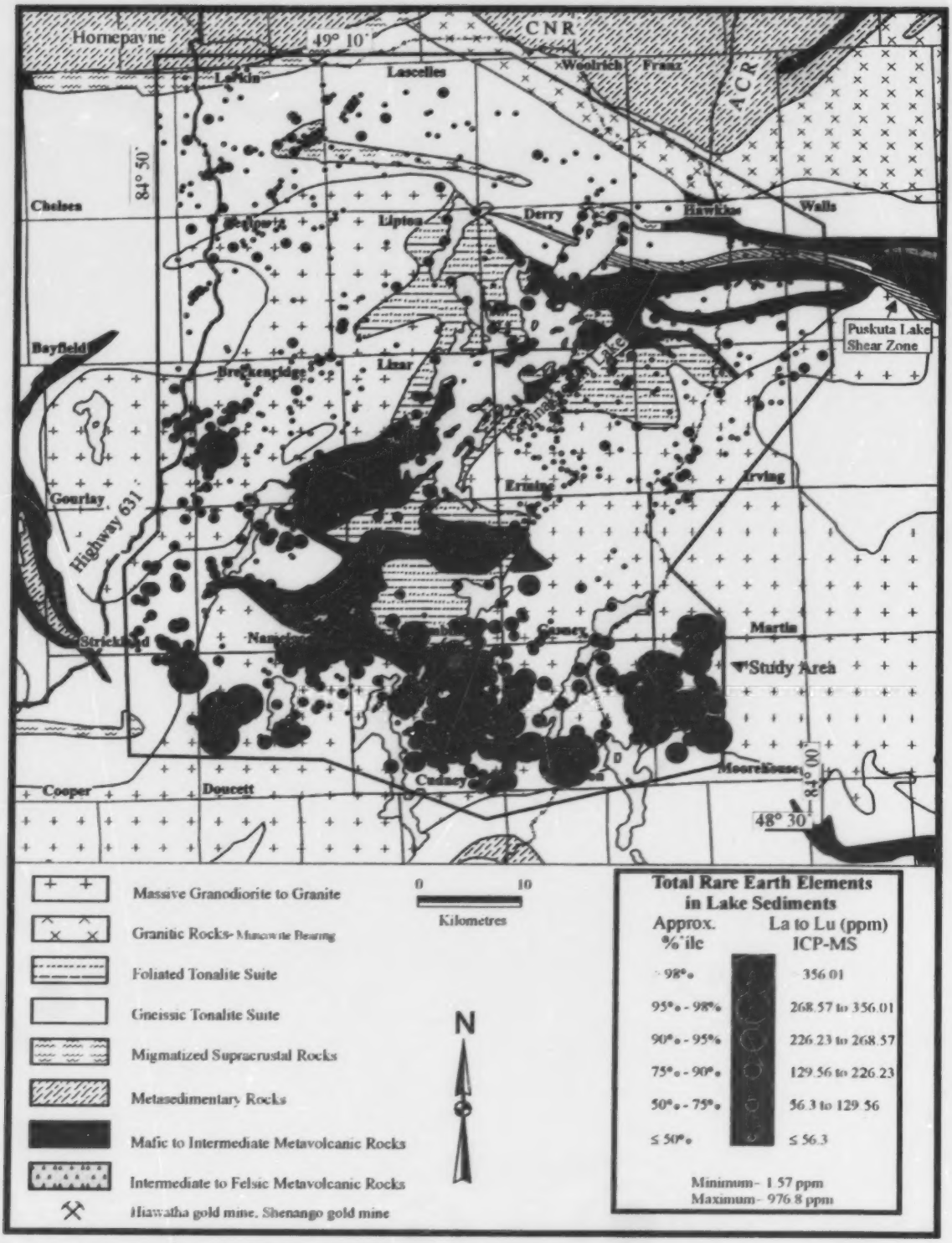
Proportional dot map of phosphorus in lake sediments



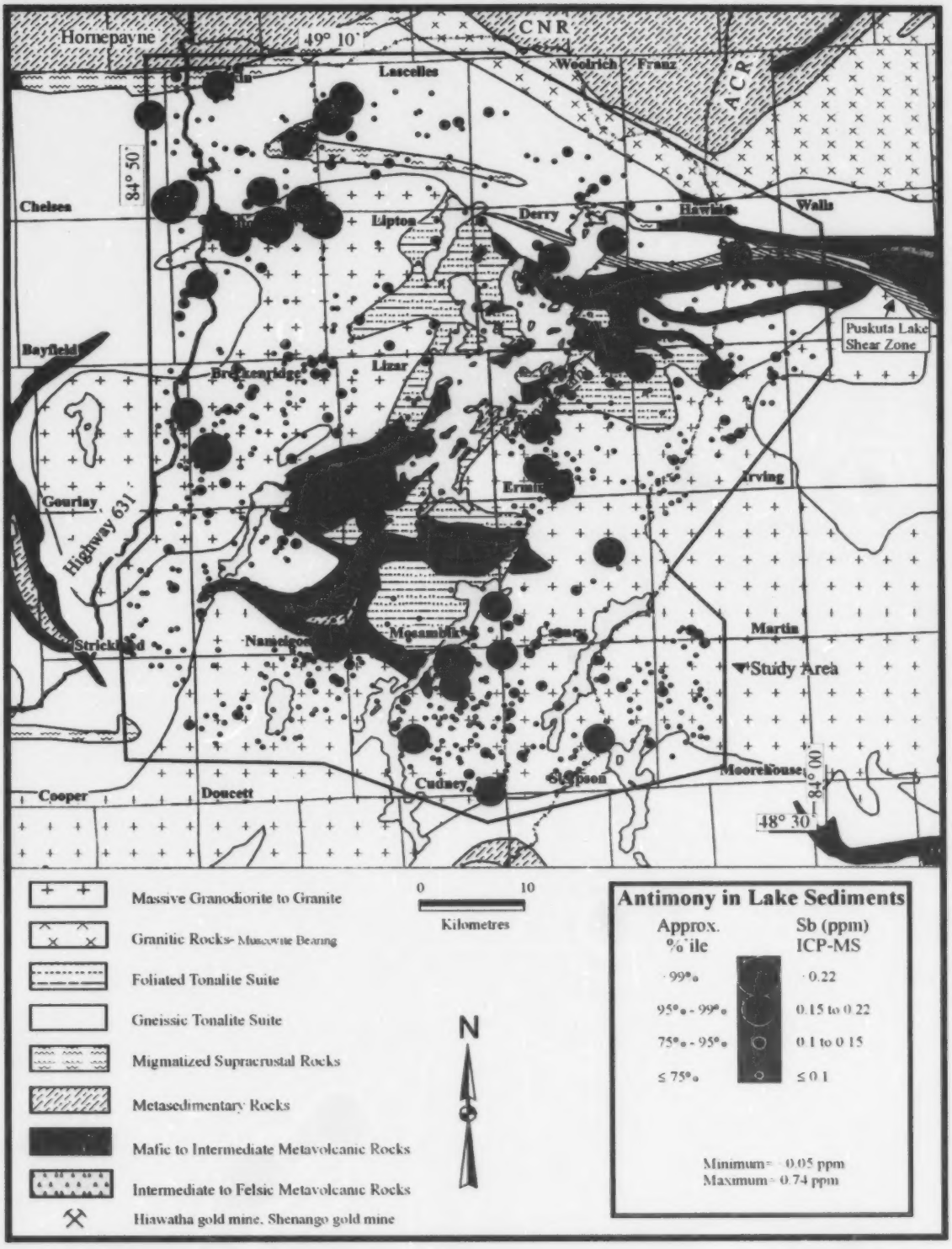
Proportional dot map of platinum in lake sediments



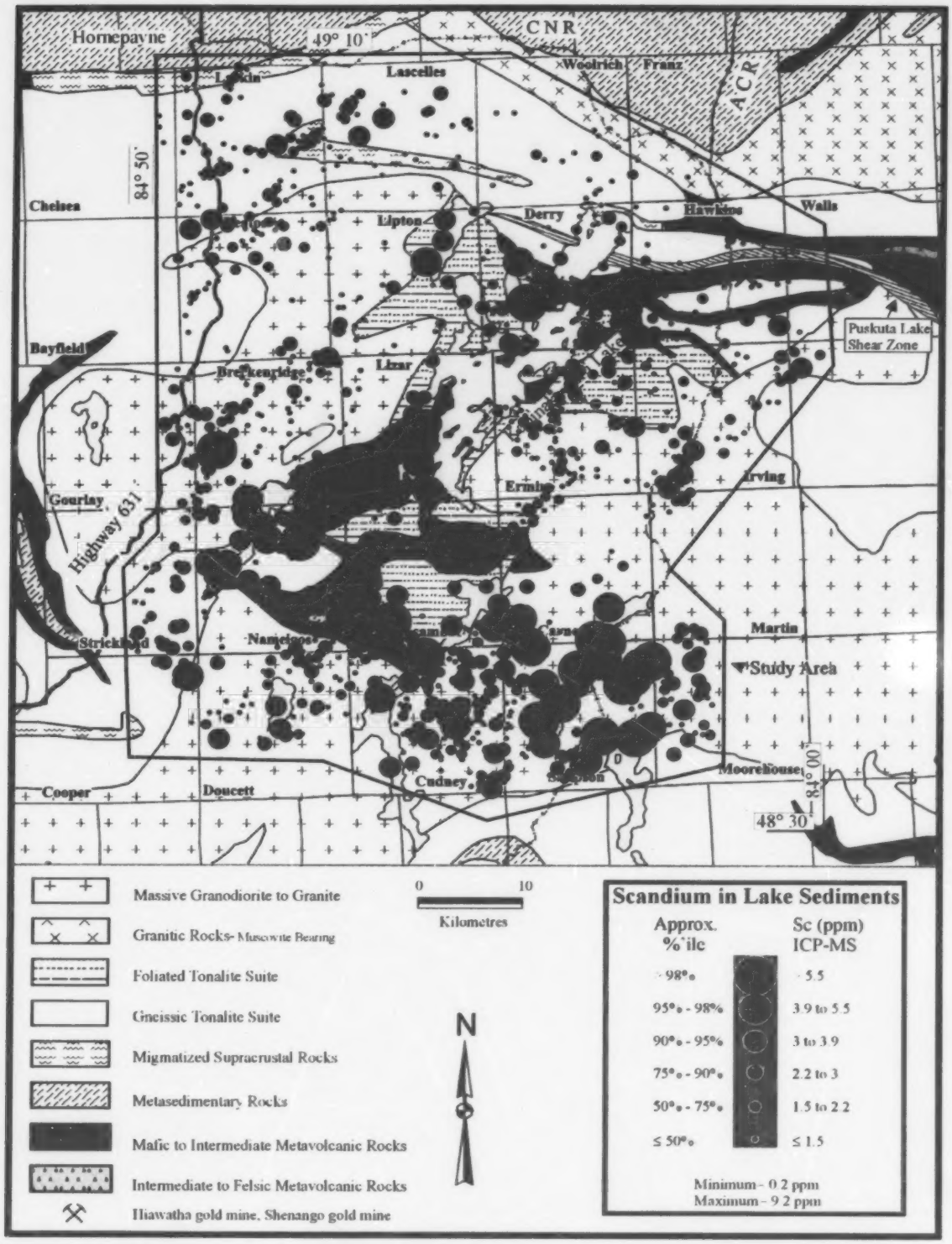
Proportional dot map of rubidium in lake sediments



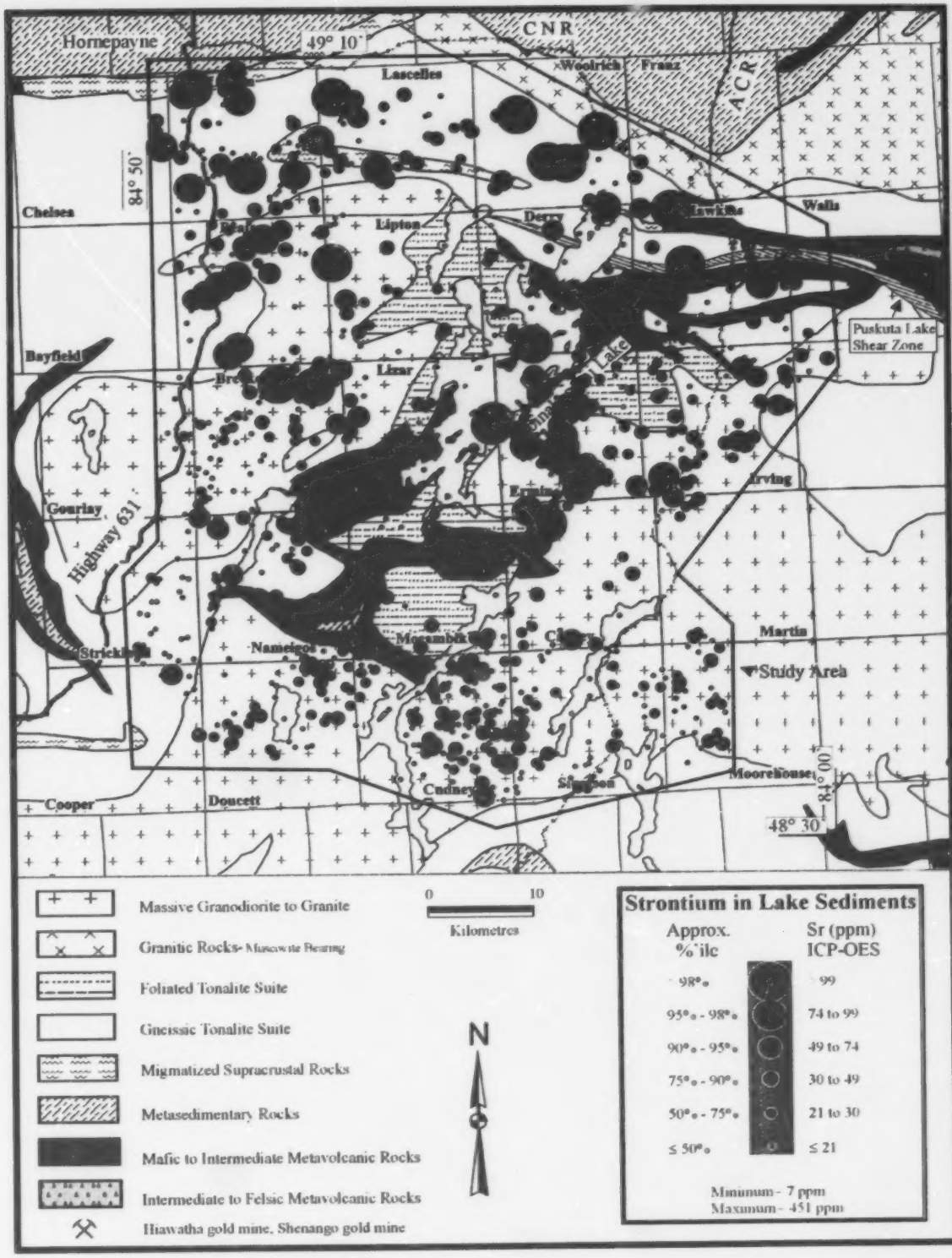
Proportional dot map of total rare earth elements in lake sediments



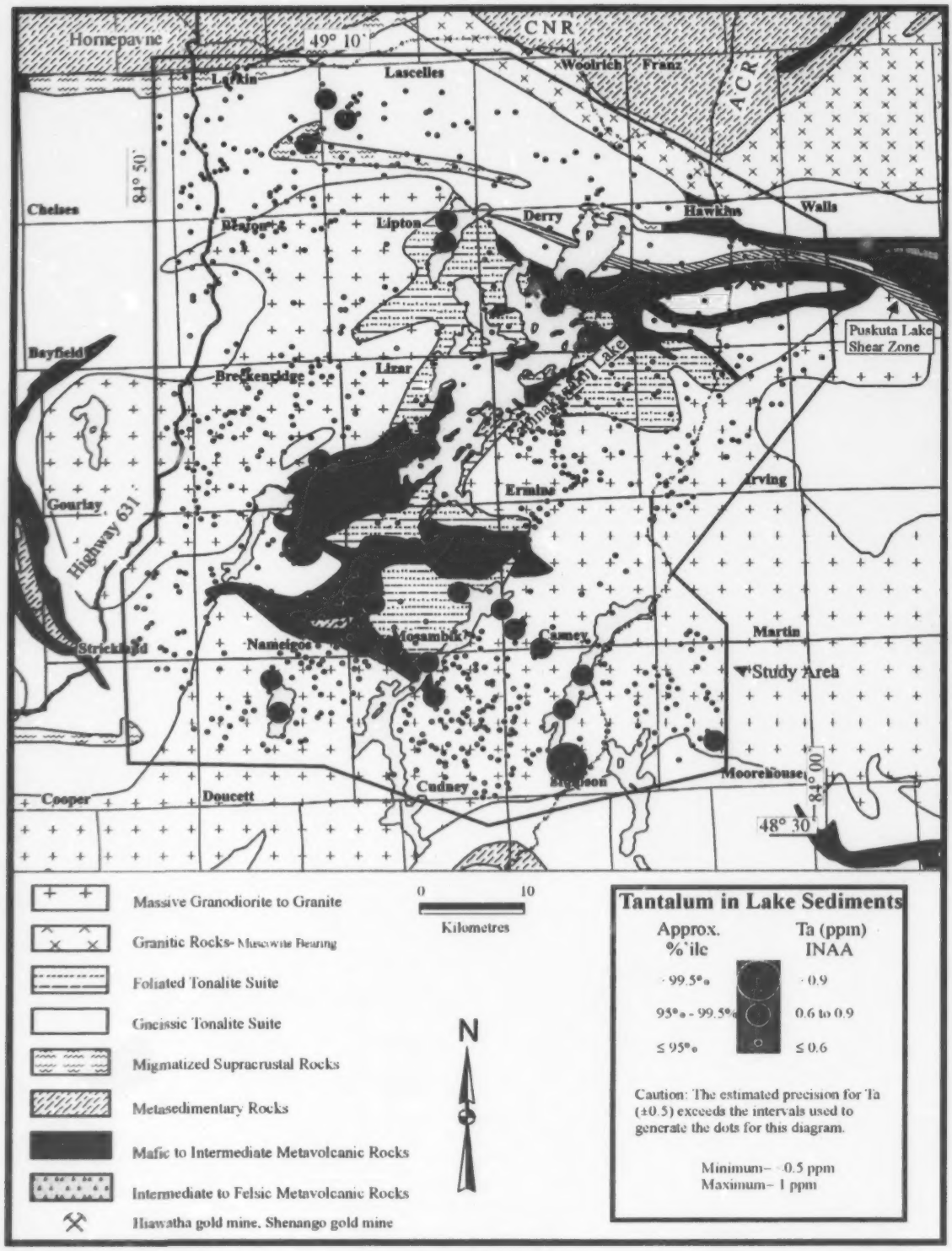
Proportional dot map of antimony in lake sediments



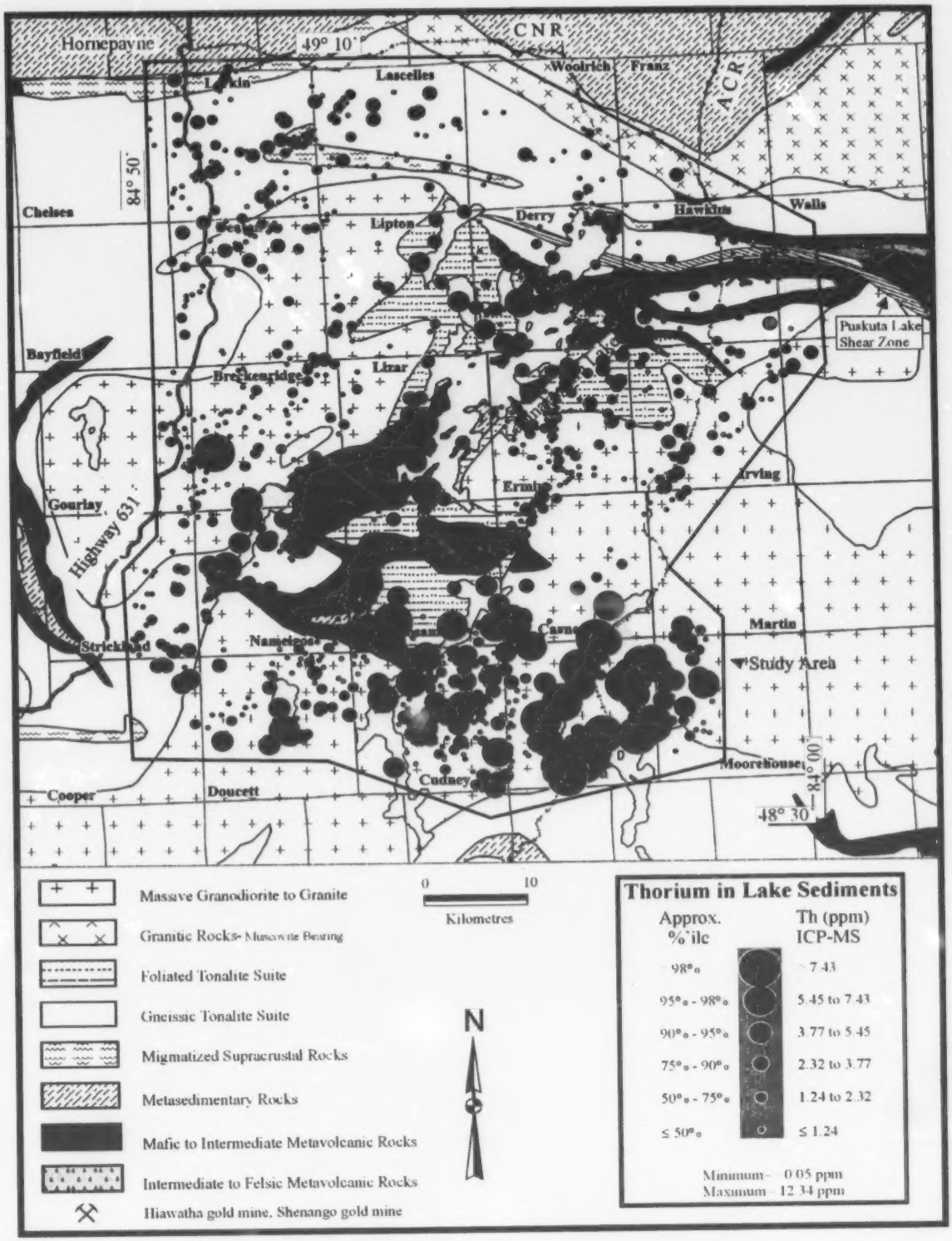
Proportional dot map of scandium in lake sediments



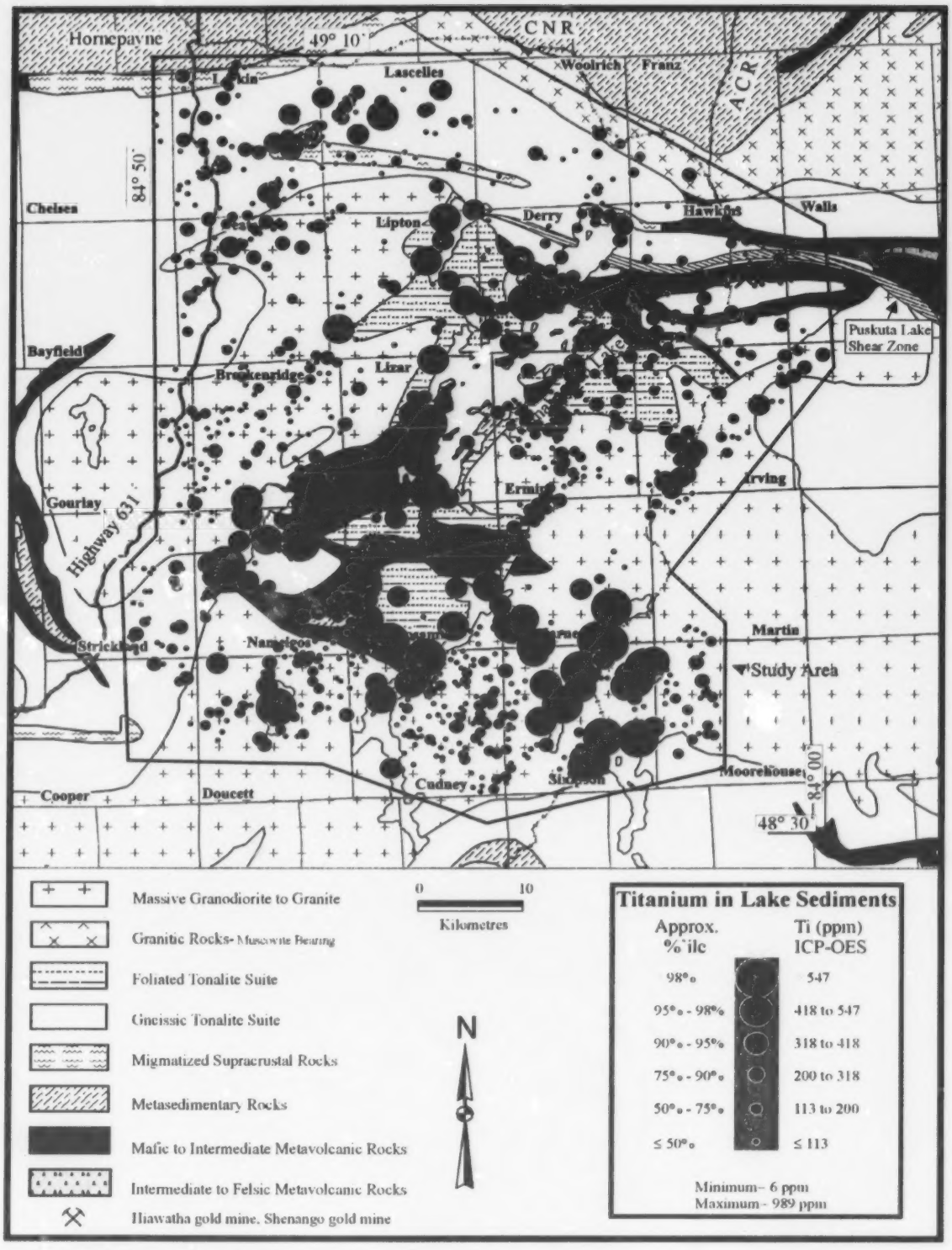
Proportional dot map of strontium in lake sediments



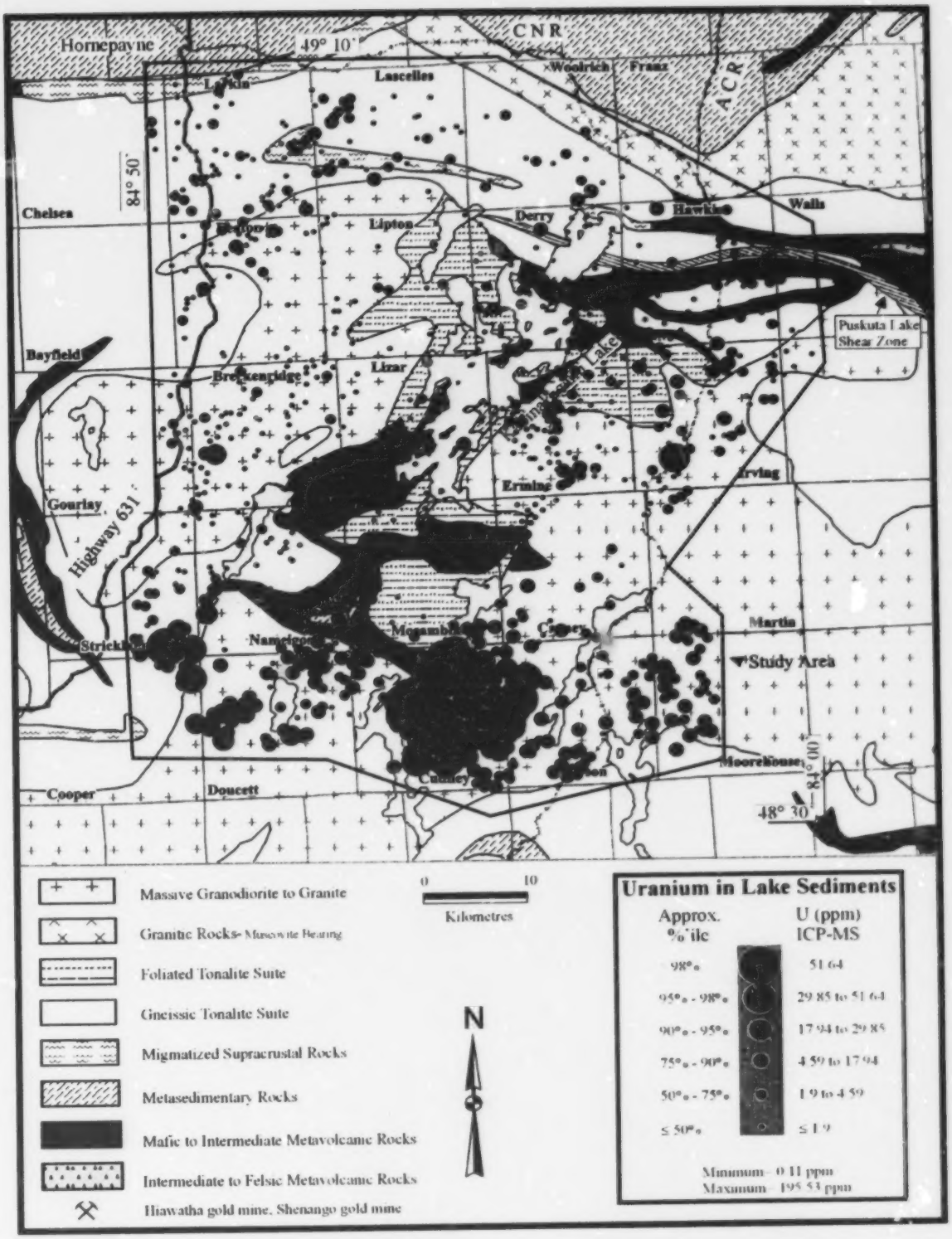
Proportional dot map of tantalum in lake sediments



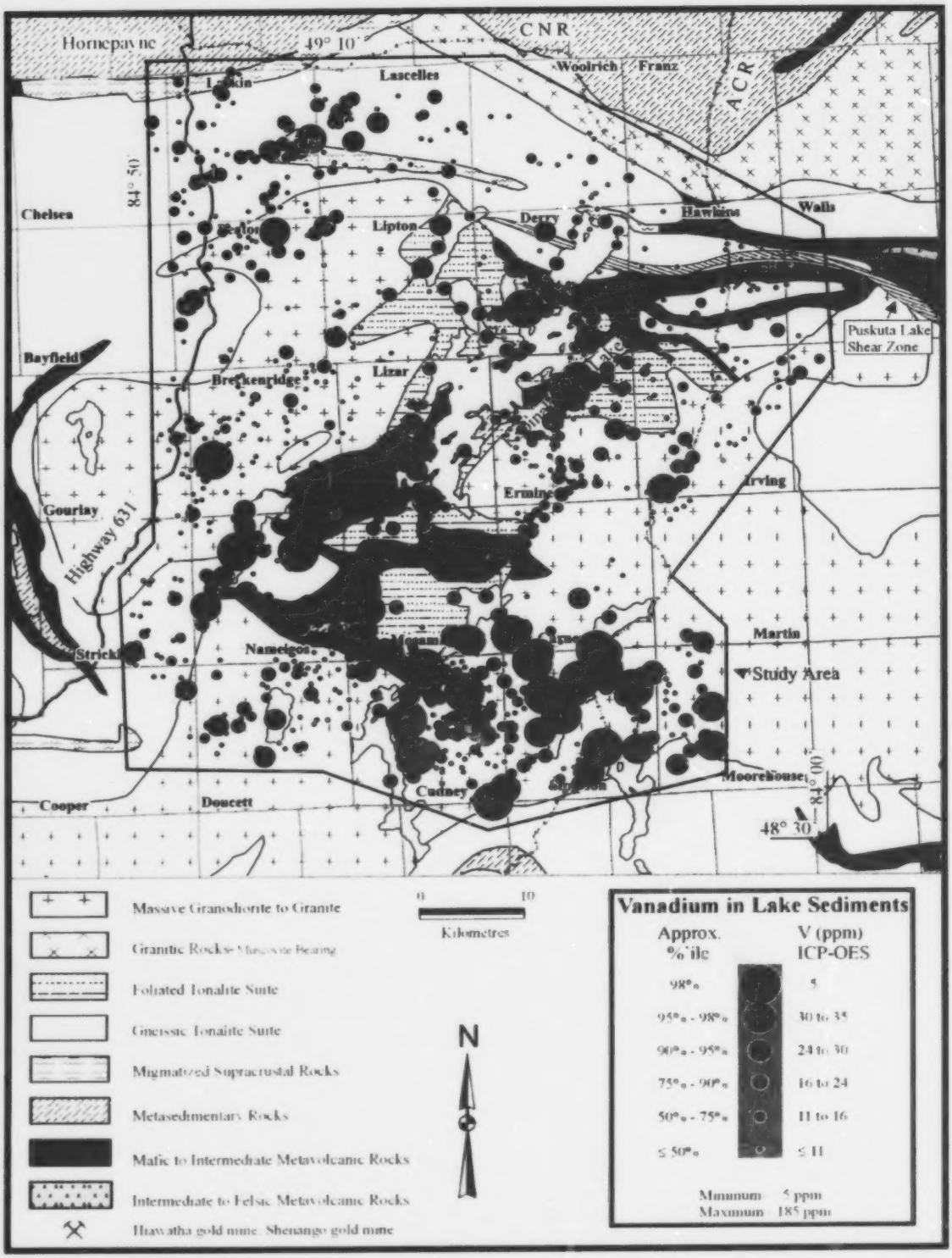
Proportional dot map of thorium in lake sediments



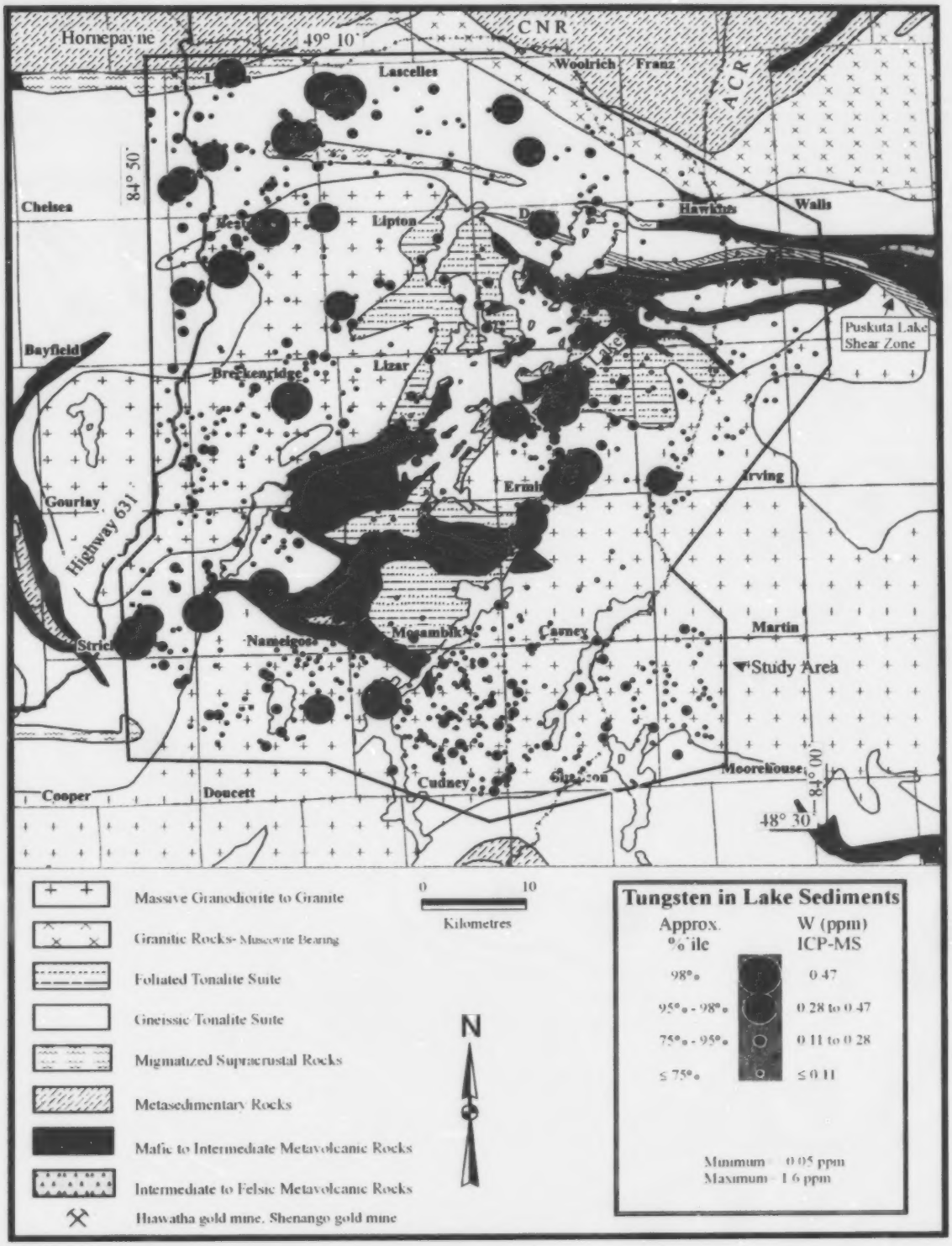
Proportional dot map of titanium in lake sediments



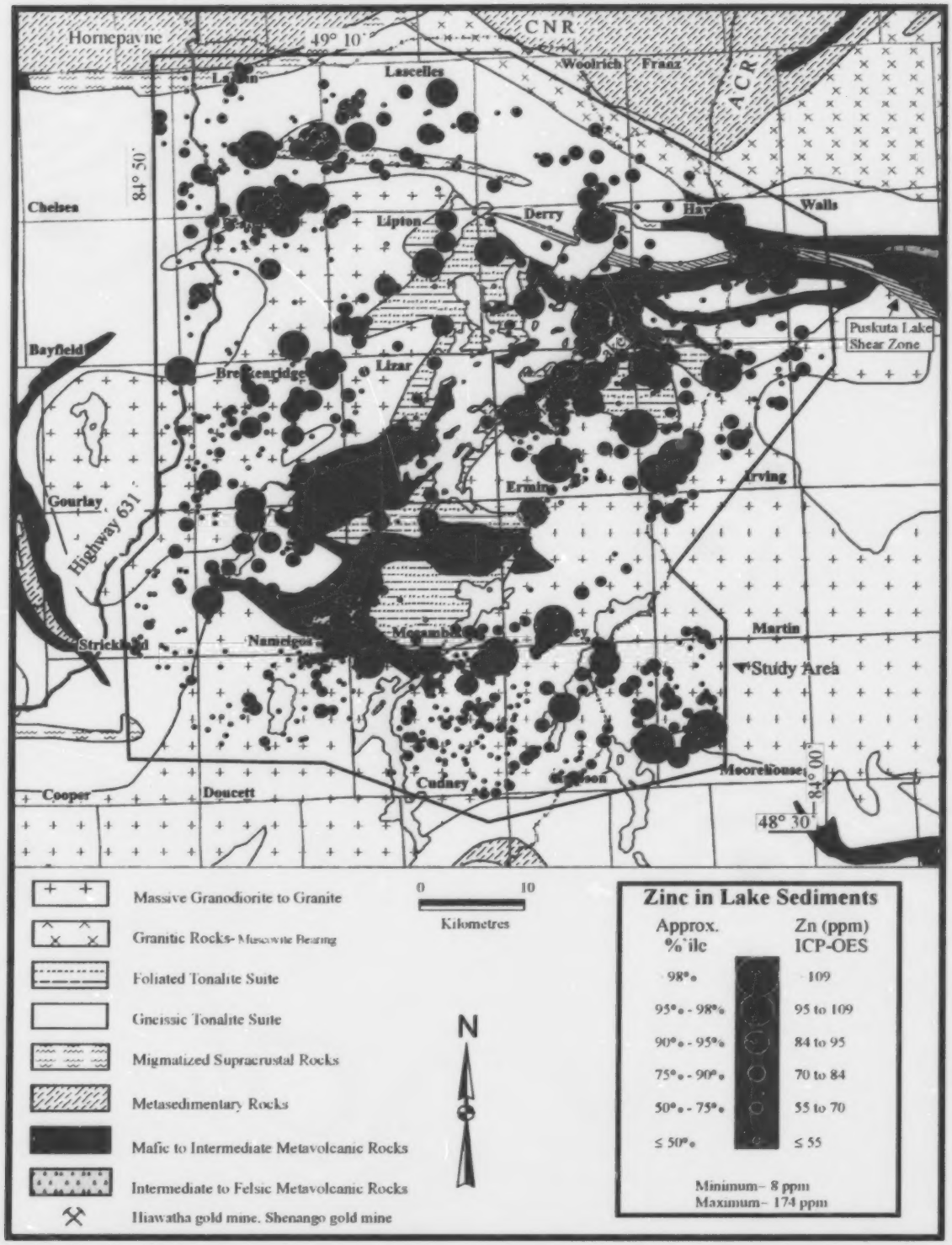
Proportional dot map of uranium in lake sediments



Proportional dot map of vanadium in lake sediments



Proportional dot map of tungsten in lake sediments



Proportional dot map of zinc in lake sediments

APPENDIX C

Selected lake sediment analytical data for Ag, As, Au(FA), Au(INAA), Co, Cr, Cu, Fe, Ni, Pd, Pt, REEs, Zn and LOI
UTM coordinates are in North American Datum NAD 27, Zone 16

Site	Easting	Northing	Ag	As	Au	Au	Co	Cr	Cu	Fe	Ni	Pd	Pt	Total	Zn	LOI
	NAD 27	Method----->	ICP-MS	INAA	FA	INAA	ICP-MS	ICP-OES	ICP-OES	ICP-OES	ICP-OES	FA	FA	REEs	ICP-OES	Grav
	UTM Zone 16	Units----->	ppm	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppb	ppb	La to Lu	ppm	%
		D. L.----->	0.02	1	0.9	1	0.05	4	5	5	5	0.9	0.5		2	0.05
1	664339.768	5439812.737	-0.02	4	N.M.	-1	1.38	8	12	3401	6	N.M.	N.M.	24.8	78	72.31
2	667883.16	5442386.641	0.06	3	-0.9	-1	4.47	28	13	16466	13	-0.9	-0.5	57.31	40	24.71
3	671877.389	5443647.869	0.05	3	-0.9	-1	6.46	22	7	22471	15	-0.9	-0.5	66.19	48	12.91
4	674993.245	5444674.033	0.02	4	N.M.	-1	2.58	15	13	5175	9	N.M.	N.M.	35.32	44	75.11
5	677217.122	5446764.693	-0.02	23	-0.9	-1	4.02	19	14	42095	14	-0.9	-0.5	44.12	60	28.43
6	680652.552	5447071.95	-0.02	2	1.7	-1	3.15	14	9	7951	11	-0.9	0.7	53.42	36	18.97
7	682634.026	5448329.051	-0.02	6	-0.9	-1	2.21	12	18	5643	11	2.1	-0.5	34.39	72	70.7
8	684804.642	5446401.085	-0.02	2	-0.9	3	3.36	16	6	8144	10	-0.9	-0.5	54.32	39	13.21
9	684550.009	5446313.832	-0.02	2	-0.9	1	3.45	19	9	8393	12	1.1	-0.5	52.89	46	16.7
10	686026.253	5448170.137	-0.02	3	-0.9	2	6.13	32	12	17196	22	2.5	0.9	77.46	107	30.27
11	687126.836	5444932.72	-0.02	5	N.M.	-1	2.56	16	21	6873	12	N.M.	N.M.	46.69	51	66.21
12	688318.79	5445250.135	-0.02	7	-0.9	2	4.06	16	26	7536	18	-0.9	-0.5	53.65	95	65.85
13	688839.775	5444683.648	-0.02	6	N.M.	-1	1.21	5	15	2058	8	N.M.	N.M.	11.41	65	90.56
14	691124.121	5446268.156	-0.02	6	N.M.	-1	1.96	7	21	1927	16	N.M.	N.M.	21.38	54	86.3
15	692825.922	5446232.191	0.18	4	N.M.	-1	1.31	6	13	7185	10	N.M.	N.M.	12.14	59	50.76
16	694864.917	5441995.7	-0.02	2	-0.9	-1	3.03	16	9	8537	10	-0.9	-0.5	64.56	30	12.13
17	695653.423	5441594.397	-0.02	5	-0.9	1	2.56	10	14	5934	14	-0.9	-0.5	22.31	73	49.2
18	698557.59	5442309.11	-0.02	7	N.M.	2	2.02	9	24	7679	19	N.M.	N.M.	23.15	84	74
19	697353.253	5441439.813	-0.02	4	-0.9	2	1.34	8	13	4062	11	0.9	-0.5	15.54	63	42.16
20	700340.816	5444519.279	-0.02	3	-0.9	-1	1.5	7	33	20439	15	-0.9	-0.5	14.86	78	40.01
21	700698.136	5443932.083	-0.02	2	-0.9	-1	2.97	16	8	8964	9	-0.9	-0.5	46.76	51	28.31
22	702561.355	5442877.352	-0.02	4	2.4	2	2.12	11	7	10406	6	-0.9	1.1	27.18	51	49.43
23	704399.272	5441534.471	-0.02	4	N.M.	-1	2.12	11	14	5649	11	N.M.	N.M.	34.34	57	61.6
24	709014.684	5439879.054	-0.02	4	-0.9	-1	3.18	17	10	8217	13	-0.9	0.6	42.92	58	23.12
25	713576.059	5436492.577	-0.02	5	N.M.	-1	0.93	5	18	2091	13	N.M.	N.M.	17.05	84	85.89
26	712561.568	5436700.356	-0.02	3	N.M.	-1	0.68	4	10	1081	7	N.M.	N.M.	11.91	57	88.41
27	712401.17	5435327.023	0.07	4	N.M.	-1	2.4	10	14	5049	12	N.M.	N.M.	29.7	167	76.06
28	713029.281	5433620.727	0.04	4	2.0	-1	3.11	14	22	5391	16	1.9	1.8	40.29	79	67.8
29	712947.087	5432963.609	-0.02	3	N.M.	-1	2.49	9	17	4377	12	N.M.	N.M.	33	69	67.74
30	714224.131	5433291.797	-0.02	5	1.5	-1	2.73	10	13	6805	15	-0.9	1.2	30.51	100	70.78
31	714227.043	5431979.981	0.03	5	N.M.	-1	1.66	7	24	3230	13	N.M.	N.M.	39.54	79	79.99
32	717294.777	5431593.121	-0.02	5	N.M.	-1	2.5	11	21	10544	15	N.M.	N.M.	35.45	111	71.25
33	719162.938	5433300.918	-0.02	3	N.M.	-1	0.84	5	24	1512	17	N.M.	N.M.	17.03	40	82.69
34	707082.357	5436855.271	-0.02	6	-0.9	-1	2.08	8	13	5048	12	-0.9	0.9	25.18	56	57.55
35	704223.146	5436882.901	-0.02	5	N.M.	-1	0.86	5	9	1198	9	N.M.	N.M.	11.41	55	53.14
36	703920.826	5440014.595	-0.02	5	N.M.	5	2.84	14	18	8000	15	N.M.	N.M.	48.012	71	62.24
37	702071.389	5439456.836	0.03	NM	N.M.	NM	1.37	38	12	2699	26	N.M.	N.M.	18.04	65	73.34
38	700515.767	5441884.315	0.03	5	1.6	-1	3.34	19	15	9445	15	-0.9	5.9	48.68	71	54.16
39	699955.701	5439607.436	0.03	2	N.M.	-1	1.05	9	19	1652	8	N.M.	N.M.	17.07	77	83.49
40	699566.627	5437764.022	0.03	5	N.M.	2	1.76	12	24	10821	13	N.M.	N.M.	32.21	90	63.33
41	700547.366	5438273.081	0.02	2	-0.9	-1	1.32	11	7	1941	7	-0.9	2.2	29.45	75	69.45
42	700629.33	5438518.332	0.02	3	-0.9	1	1.94	17	14	6601	11	-0.9	1.4	30.37	62	42.53
43	700939.75	5438619.798	0.03	7	N.M.	-1	1.94	9	13	6729	9	N.M.	N.M.	24.45	80	78.49
44	699084.31	5435894.018	0.03	3	N.M.	1	2.78	15	16	9218	12	N.M.	N.M.	58.09	43	70.73
45	693790.483	5437623.182	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
46	691399.07	5439791.619	-0.02	2	N.M.	-1	1.03	4	9	2095	6	N.M.	N.M.	8.725	52	90.38
47	690918.099	5439064.554	0.15	5	N.M.	-1	1.2	7	18	1706	15	N.M.	N.M.	17.45	71	86.7
48	687631.63	5441903.671	-0.02	3	1.9	-1	0.74	4	7	4202	-5	1.2	1.8	7.425	19	88.31
49	687245.987	5440830.597	0.03	3	-0.9	4	3.63	24	11	15287	13	-0.9	0.8	52.87	64	34.6
50	685512.484	5444020.255	0.04	5	-0.9	-1	1.64	9	16	4134	10	-0.9	1.0	30.74	73	73.51
51	684675.261	5444102.585	0.03	5	2.1	-1	1.33	7	15	2574	11	-0.9	1.1	22.4	87	80.55
52	682697.724	5442095.843	0.06	5	N.M.	-1	1.4	7	15	2921	7	N.M.	N.M.	22.51	73	78.74
53	683707.469	5441666.521	0.04	5	N.M.	3	1.25	7	20	2332	12	N.M.	N.M.	18.79	77	80.42
54	681826.437	5441204.302	0.04	6	N.M.	2	2.34	13	20	6554	12	N.M.	N.M.	40.2	55	69.92
55	676326.493	5441069.778	0.06	7	N.M.	1	2.39	12	32	9049	19	N.M.	N.M.	43.08	82	74.84
56	675149.024	5440659.826	-0.02	6	N.M.	1	2.57	11	24	11570	14	N.M.	N.M.	38.2	63	72.58
57	665993.428	5440757.077	0.04	4	1.9	-1	4.22	21	14	14010	14	-0.9	0.7	57.83	50	31.71
58	665456.327	5440640.269	0.05	6	-0.9	2	5.87	24	14	28862	17	-0.9	3.2	68.43	57	25
59	668175.196	5441107.295	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
60	667842.952	5440456.925	0.08	3	-0.9	-1	1.42	9	8	4710	8	1.6	1.4	16.05	17	19.75
61	670660.161	5442939.344	0.02	3	0.9	2	6.66	31	12	28261	20	1.6	0.7	87.39	64	20.85
62	672094.209	5442346.705	-0.02	2	-0.9	3	3.89	19	7	11922	11	-0.9	0.8	62.4	30	8.2
63	675748.501	5442849.065	-0.02	6	N.M.	1	1.69	10	11	3942	10	N.M.	N.M.	23.25	80	78.65
64	678411.255	5443804.486	0.03	5	-0.9	3	6.58	28	16	19542	19	-0.9	-0.5	100.81	103	40.04
65	675113.163	5443705.175	-0.02	NM	N.M.	NM	1.48	10	10	2117	8	N.M.	N.M.	24.86	45	80.12
66	674508.007	5443367.244	-0.02	4	-0.9	2	4.45	15	14	4963	10	-0.9	-0.5	39.9	139	57.7

Site	Easting	Northing	Ag	As	Au	A u	Co	Cr	Cu	Fe	Ni	Pd	Pt	Total	Zn	LOI
	NAD 27	Method---->	ICP-MS	INAA	FA	INAA	ICP-MS	ICP-OES	ICP-OES	ICP-OES	ICP-OES	FA	FA	REEs	ICP-OES	Grav.
	UTM Zone 16	Units---->	ppm	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppb	ppb	La to Lu	ppm	%
		D. L.---->	0.02	1	0.9	1	0.05	4	5	5	5	0.9	0.5		2	0.05
67	668520.854	5441790.332	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
68	664301.166	5440211.016	-0.02	4	-0.9	1	4.48	21	19	9576	14	-0.9	0.5	74.77	40	32.74
69	671067.112	5439425.866	0.06	NM	N.M.	NM	1.96	14	11	3673	10	N.M.	N.M.	31.84	73	71.5
70	670881.162	5438978.87	0.05	10	-0.9	-1	3.67	18	14	9502	14	-0.9	0.6	46.3	55	47.08
71	672243.76	5438977.196	0.04	4	N.M.	-1	2.23	16	13	7061	13	N.M.	N.M.	31.6	53	63.61
72	674198.944	5437153.556	0.08	4	N.M.	-1	1.62	9	35	2735	9	N.M.	N.M.	45.57	80	75.45
73	673980.491	5437837.195	0.04	9	N.M.	-1	1.49	7	10	5193	8	N.M.	N.M.	19.74	98	79.83
74	676674.15	5441917.999	0.04	5	N.M.	-1	2.05	9	12	3737	12	N.M.	N.M.	19.26	69	79.52
75	677618.137	5441657.983	-0.02	2	1.3	-1	2.22	14	9	7262	8	-0.9	0.6	45.61	28	35.44
76	678042.907	5441637.208	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
77	679913.079	5441098.024	0.03	7	-0.9	-1	1.92	9	16	4598	14	-0.9	-0.5	20.62	79	83.26
78	680612.604	5440032.848	0.04	4	-0.9	1	1.24	6	18	2192	6	-0.9	-0.5	19.16	63	51.09
79	685739.505	5438770.21	0.05	3	-0.9	2	2.59	17	8	9701	10	-0.9	-0.5	60.77	25	21.83
80	684765.181	5431337.386	0.11	4	-0.9	3	7.75	35	14	21445	24	-0.9	-0.5	109.74	105	28.24
81	685264.746	5432835.137	NM	3	NM	5	NM	NM	NM	NM	NM	NM	NM	NM	NM	30.59
82	686259.601	5433454.602	0.09	3	-0.9	3	6.98	30	13	18169	21	-0.9	-0.5	94.4	94	25.31
83	686429.835	5435532.075	-0.02	4	N.M.	5	6.07	27	11	19971	21	N.M.	N.M.	93.127	86	20.83
84	689007.727	5436333.324	0.05	2	-0.9	1	4.6	19	7	11167	14	-0.9	-0.5	70.08	45	11.66
85	690417.173	5435369.23	0.05	3	N.M.	-1	1.12	5	16	2259	6	N.M.	N.M.	27.18	58	80.17
86	690112.546	5431767.541	0.05	4	N.M.	-1	1.12	-4	17	1137	8	N.M.	N.M.	16.99	53	91.32
87	690436.758	5432468.905	0.06	4	N.M.	-1	3.6	7	39	2689	16	N.M.	N.M.	27	97	85.85
88	693247.689	5431245.947	0.11	3	1.6	3	6.84	31	25	17853	22	-0.9	-0.5	125.24	62	18.74
89	695706.584	5432980.181	0.06	4	1.0	-1	2.21	12	12	5679	11	-0.9	-0.5	38.77	64	59.6
90	696124.009	5434761.824	0.05	4	N.M.	-1	1.57	7	14	11745	11	N.M.	N.M.	34.34	51	69.08
91	697183.288	5431726.438	0.08	5	-0.9	3	4.65	22	18	15397	17	-0.9	-0.5	77.6	63	40.65
92	698618.867	5434535.164	0.06	4	-0.9	-1	3.2	15	16	9735	12	-0.9	-0.5	60.47	44	64.88
93	700271.879	5435174.835	0.04	2	-0.9	-1	1.52	13	10	2122	7	-0.9	-0.5	34.69	174	62.16
94	700742.288	5435310.917	0.03	NM	NM	NM	2.56	NM	NM	NM	NM	NM	NM	40.76	NM	NM
95	700469.273	5436074.001	0.02	2	-0.9	-1	1.7	13	6	7166	10	-0.9	-0.5	22.9	17	2.4
96	701092.058	5437102.193	0.03	4	N.M.	-1	1.72	9	6	6596	8	N.M.	N.M.	23.52	23	20.53
97	701717.303	5435752.801	0.07	4	-0.9	-1	4.27	20	15	11230	15	-0.9	-0.5	74.14	59	53.39
98	702806.573	5434900.496	0.04	3	-0.9	3	3.18	16	6	8443	10	-0.9	-0.5	69.64	33	9.79
99	702694.166	5433377.467	0.06	5	N.M.	-1	3.89	17	12	9069	13	N.M.	N.M.	58.4	71	51.31
100	701490.265	5433710.675	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
101	701188.968	5430946.191	0.06	6	-0.9	-1	3.37	12	16	7287	13	-0.9	-0.5	47.98	67	60.75
102	705093.663	5431404.65	0.05	6	-0.9	2	2.94	12	19	8357	19	-0.9	0.7	42.46	83	56.8
103	705443.847	5433121.798	0.04	6	-0.9	-1	2.97	8	6	6475	5	1.0	-0.5	27.89	67	54.72
104	708313.633	5431284.105	0.04	3	-0.9	-1	2.39	12	12	7545	13	1.0	-0.5	34.35	35	23.4
105	712582.023	5428876.521	0.06	3	N.M.	-1	1.63	7	28	4802	8	N.M.	N.M.	31.23	59	83.22
106	712506.007	5429483.018	0.06	3	N.M.	5	1.6	6	24	5076	8	N.M.	N.M.	31.18	53	76.53
107	713847.336	5429810.677	0.06	3	N.M.	10	1.61	7	37	3616	12	N.M.	N.M.	25.6	61	76.77
108	714736.934	5431101.496	0.05	5	N.M.	-1	2.68	10	26	7421	19	N.M.	N.M.	33.65	104	72.5
109	716384.138	5431082.821	0.04	3	N.M.	-1	0.99	6	12	1698	9	N.M.	N.M.	17.89	73	85.2
110	717318.134	5431043.609	0.04	4	-0.9	1	2.09	10	16	8754	12	1.1	0.6	26.52	68	43.88
111	718583.73	5429448.364	0.06	5	N.M.	2	2.19	12	21	6783	13	N.M.	N.M.	32.73	84	65.93
112	717541.663	5429195.383	0.04	4	N.M.	-1	1.38	7	21	3039	10	N.M.	N.M.	21.82	91	85.28
113	715839.537	5429050.487	0.04	3	N.M.	-1	1.99	10	22	3597	14	N.M.	N.M.	35.94	72	74.63
114	715407.963	5429288.878	0.03	3	-0.9	2	1.86	9	17	7167	10	1.7	0.6	25.01	57	38.85
115	715167.278	5428908.736	0.03	4	N.M.	-1	1.34	6	19	3617	12	N.M.	N.M.	15.49	77	86.45
116	713068.525	5426207.118	0.05	2	-0.9	-1	3.27	18	8	7478	12	-0.9	-0.5	56.67	33	22.53
117	714700.356	5425655.731	0.1	4	1.4	-1	5.85	23	32	12174	20	1.8	0.8	87.11	77	59.84
118	716880.743	5426225.36	0.06	2	N.M.	-1	2.62	9	25	1894	13	N.M.	N.M.	30.88	49	85.93
119	717611.569	5425032.965	0.1	3	-0.9	-1	5.28	25	44	9917	27	2.3	0.9	87.83	58	47.64
120	719676.987	5424434.551	0.05	NM	N.M.	NM	2.18	7	25	3478	12	N.M.	N.M.	35.01	71	72.78
121	721547.755	5422032.826	0.05	3	-0.9	-1	3.62	17	11	8516	14	0.9	-0.5	57.11	33	18.17
122	719792.803	5420675.881	0.08	2	1.0	-1	5.3	26	16	14265	18	1.4	-0.5	92.47	79	30.18
123	718867.316	5419829.329	0.06	3	-0.9	-1	4.84	21	12	10318	16	1.0	-0.5	70.75	58	24.12
124	717810.223	5419267.861	0.08	3	1.2	-1	3.6	16	13	8001	12	1.6	-0.5	55.79	50	34.16
125	717674.531	5419991.83	-0.02	NM	N.M.	NM	1.3	7	16	2907	7	N.M.	N.M.	19.88	51	82
126	717524.229	5420707.934	0.04	2	N.M.	-1	0.94	5	15	1717	7	N.M.	N.M.	19	48	84.16
127	717899.905	5421904.724	0.06	4	N.M.	3	4.65	20	13	11626	13	N.M.	N.M.	57.35	64	41.56
128	719114.236	5422279.825	0.05	5	N.M.	-1	3.42	15	18	5766	18	N.M.	N.M.	44.16	73	67.56
129	670659.716	5437203.346	0.04	2	-0.9	-1	3.21	16	11	10701	12	1.8	-0.5	48	31	25.32
130	674775.566	5434840.417	0.06	4	-0.9	-1	4.44	20	15	17864	15	1.9	-0.5	52.73	52	44.32
131	675659.555	5435557.778	0.07	17	N.M.	-1	2.93	10	11	12334	7	N.M.	N.M.	24.44	84	83.04
132	680877.348	5433330.564	0.04	3	N.M.	-1	1.31	7	12	2987	10	N.M.	N.M.	21.6	51	73.9

Site	Easting	Northing	Ag	As	Au	Au	Co	Cr	Cu	Fe	Ni	Pd	Pt	Total	Zn	LOI
	NAD 27	Method------>	ICP-MS	INAA	FA	INAA	ICP-MS	ICP-OES	ICP-OES	ICP-OES	ICP-OES	FA	FA	REEs	ICP-OES	Grav
	UTM Zone 16	Units------>	ppm	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppb	ppb	La to Lu	ppm	%
		D. L.------>	0.02	1	0.9	1	0.05	4	5	5	5	0.9	0.5		2	0.05
133	685405.497	5429038.66	0.03	5	-0.9	-1	2.32	7	9	4263	9	1.9	-0.5	19.33	55	78.78
134	686805.251	5429266.056	-0.02	5	N.M.	1	4.09	24	30	14037	25	N.M.	N.M.	69.285	48	26.72
135	690860.323	5429023.013	0.05	3	N.M.	-1	2.57	16	21	5282	18	N.M.	N.M.	45.03	50	63.88
136	694311.31	5429737.876	-0.02	6	N.M.	-1	1.07	6	18	2042	7	N.M.	N.M.	20.49	70	87.26
137	696310.025	5430325.56	0.02	2	-0.9	1	2.4	10	-5	6134	7	-0.9	-0.5	37.17	19	5.2
138	698432.165	5429815.205	0.03	2	-0.9	-1	2.92	12	-5	7132	8	-0.9	-0.5	58.06	19	4.5
139	704284.659	5426666.22	0.08	4	N.M.	3	3.38	16	106	6807	24	N.M.	N.M.	56.94	60	68.22
140	703822.162	5427322.728	0.07	6	N.M.	-1	3.55	17	56	6894	24	N.M.	N.M.	46.85	61	64.24
141	703929.546	5428152.953	-0.02	NM	N.M.	NM	1.08	-4	11	810	5	N.M.	N.M.	5.975	30	92.35
142	707115.806	5428012.832	-0.02	2	1.2	-1	1.04	5	15	2428	8	1.4	-0.5	9.72	37	32.13
143	707708.051	5425182.413	-0.02	2	3.5	-1	0.77	5	30	823	10	1.6	-0.5	12.14	30	30.99
144	707858.536	5426007.049	0.09	4	N.M.	-1	3.35	11	43	4784	15	N.M.	N.M.	39.92	73	66.26
145	709890.327	5426345.157	0.06	2	N.M.	19	2.88	19	16	6459	14	N.M.	N.M.	54.24	52	54.71
146	710446.189	5427655.124	0.05	-1	-0.9	-1	3.64	15	9	7550	12	-0.9	-0.5	54.13	31	9.4
147	712645.629	5423144.995	0.04	4	N.M.	-1	2.95	15	44	8703	17	N.M.	N.M.	65.95	66	61.95
148	713652.08	5421218.826	0.04	4	-0.9	2	2.55	11	23	6830	14	1.1	-0.5	38.99	57	42.5
149	713825.925	5422201.743	0.05	4	-0.9	-1	2.35	14	18	5174	16	1.9	-0.5	38.88	69	58.82
150	714743.6	5421927.991	0.05	3	N.M.	-1	2.34	12	15	5303	13	N.M.	N.M.	37.64	73	61.5
151	714816.148	5420202.646	0.04	5	N.M.	-1	1.08	5	16	2682	12	N.M.	N.M.	18.35	69	88.6
152	715523.371	5415598.639	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
153	715556.276	5416967.318	0.05	2	-0.9	2	5.01	19	9	10072	13	-0.9	-0.5	68.89	51	12.8
154	715336.366	5417719.533	0.02	3	N.M.	-1	1.48	-4	15	2048	14	N.M.	N.M.	9.82	47	91.37
155	717623.941	5417394.917	0.04	3	N.M.	-1	1.05	7	12	2084	8	N.M.	N.M.	18.84	72	84.35
156	716820.926	5417418.457	0.03	3	-0.9	-1	1.72	7	17	4987	9	1.8	-0.5	24.29	58	47.59
157	714503.86	5414290.675	0.05	5	N.M.	-1	1.46	5	19	2471	10	N.M.	N.M.	18.81	62	85.04
158	713795.161	5413635.716	0.04	6	N.M.	5	1.75	5	16	4246	13	N.M.	N.M.	21.28	90	83.47
159	713098.087	5413885.196	0.04	6	N.M.	-1	1.08	4	13	1329	10	N.M.	N.M.	13.43	70	89.45
160	712604.8	5412076.199	0.06	9	N.M.	-1	2.83	15	19	7825	16	N.M.	N.M.	50.37	63	53.63
161	712094.517	5413740.918	0.05	7	-0.9	-1	3.36	11	16	8696	14	1.0	-0.5	37.62	70	67.85
162	713123.167	5415577.151	0.06	5	N.M.	-1	3.1	13	25	5373	16	N.M.	N.M.	44.6	77	75.14
163	711946.173	5418227.866	0.06	3	-0.9	-1	3.54	17	10	9003	11	1.1	-0.5	56.35	52	33.57
164	712110.368	5420289.825	0.06	3	N.M.	-1	3.15	7	36	1816	15	N.M.	N.M.	19.33	123	88.33
165	708907.417	5417915.482	0.04	6	-0.9	-1	2.86	15	11	7700	13	-0.9	-0.5	38.04	74	58.69
166	708742.594	5419287.331	0.07	4	N.M.	-1	2.91	13	19	7288	12	N.M.	N.M.	45.62	63	65.63
167	706131.587	5420133.667	0.04	6	N.M.	-1	1.11	4	9	4186	9	N.M.	N.M.	15.33	96	85.3
168	705278.448	5420932.573	0.07	7	-0.9	2	4.01	12	20	11106	18	1.3	-0.5	43.15	116	63.56
169	705633.798	5421634.68	0.05	5	-0.9	-1	2.62	11	11	4859	13	-0.9	-0.5	35.82	92	62.03
170	707678.968	5421972.103	0.05	3	-0.9	-1	3.16	11	15	6031	12	1.5	-0.5	32.64	81	70.54
171	707152.24	5422708.373	0.04	6	N.M.	-1	2.57	13	14	5056	13	N.M.	N.M.	32.81	71	71.22
172	708164.546	5423678.722	0.04	4	N.M.	-1	1.58	9	14	2961	10	N.M.	N.M.	31.81	64	66.66
173	709183.661	5424579.215	0.06	4	-0.9	-1	2.15	10	17	5393	12	-0.9	-0.5	34.18	72	59.2
174	706170.046	5424258.028	0.08	4	-0.9	-1	5.2	22	28	9451	24	-0.9	-0.5	70.65	73	53.83
175	705886.635	5425614.108	0.06	3	-0.9	-1	4	21	23	8531	20	-0.9	0.6	56.52	51	41.79
176	703789.195	5423670.474	0.05	2	-0.9	2	4	18	9	8456	12	-0.9	-0.5	58.32	51	28.34
177	703293.325	5424234.554	0.05	3	-0.9	-1	4.37	17	12	6598	14	-0.9	-0.5	45.56	61	47.94
178	702563.213	5425448.958	0.06	3	-0.9	4	5.14	20	17	9631	17	1.0	1.8	69.65	73	55.6
179	698699.414	5428655.376	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
180	698330.954	5429269.74	0.06	3	N.M.	-1	2.07	16	19	7395	13	N.M.	N.M.	29.41	59	74.35
181	694664.27	5428441.12	0.04	3	-0.9	-1	4.69	24	12	13012	18	1.0	0.7	67.89	48	14.25
182	691670.418	5427357.335	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
183	675668.591	5431752.834	-0.02	2	-0.9	-1	0.94	5	8	2265	6	1.2	-0.5	7.965	47	27.52
184	664519.258	5435581.596	0.08	4	-0.9	-1	5.38	22	43	16064	18	-0.9	0.6	93.13	80	48.77
185	669232.049	5435143.277	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	83.23
186	671512.292	5433188.531	0.04	4	-0.9	1	4.68	20	14	11311	16	-0.9	-0.5	68.45	35	22.04
187	677114.37	5426836.128	0.04	13	-0.9	-1	2.34	9	26	6884	17	1.1	1.1	30.26	72	71.86
188	676666.849	5426801.343	0.03	3	-0.9	-1	1.79	8	16	3481	13	1.4	1.3	27.4	62	79.1
189	678702.263	5427855.609	-0.02	4	N.M.	-1	1.35	5	17	2782	8	N.M.	N.M.	26.369	62	85.95
190	680689.83	5429022.62	0.03	6	-0.9	-1	2.76	11	19	8281	15	-0.9	-0.5	39.53	85	66.53
191	681786.903	5428715.379	0.05	4	-0.9	-1	5.29	22	18	11741	18	1.3	-0.5	72.64	57	30.09
192	687996.11	5428164.227	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
193	688346.593	5427370.658	0.06	2	21.0	1	5.61	27	20	13559	20	-0.9	-0.5	87.65	53	21.95
194	689036.862	5425565.05	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
195	690112.736	5426777.01	0.06	5	-0.9	-1	5.24	27	30	12627	27	-0.9	-0.5	82.86	70	51.22
196	691891.919	5426670.996	0.05	5	-0.9	-1	4.09	21	30	12910	22	-0.9	-0.5	73.54	54	48.38
197	694076.197	5427251.31	0.09	4	-0.9	-1	11.12	44	24	33640	29	1.0	0.5	175.53	98	20.89
198	696236.277	5427033.928	0.04	2	-0.9	-1	5.88	23	15	14138	17	-0.9	-0.5	85.9	41	9.3

Site	Easting	Northing	Ag	As	Au	A u	Co	Cr	Cu	Fe	Ni	Pd	Pt	Total	Zn	LOI
	NAD 27	Method----->	ICP-MS	INAA	FA	INAA	ICP-MS	ICP-OES	ICP-OES	ICP-OES	ICP-OES	FA	FA	REEs	ICP-OES	Grav.
	UTM Zone 16	Units----->	ppm	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppb	ppb	La to Lu	ppm	%
		D. L.----->	0.02	1	0.9	1	0.05	4	5	5	5	0.9	0.5		2	0.05
199	697389.141	5429414.838	0.02	3	-0.9	-1	2.84	12	8	7396	9	-0.9	-0.5	44.95	28	28.46
200	697884.166	5428976.822	-0.02	5	N.M.	-1	1.61	8	12	9661	7	N.M.	N.M.	16.98	34	32.24
201	698134.922	5428656.387	0.04	4	N.M.	-1	1.92	11	10	5013	9	N.M.	N.M.	27.44	63	69.25
202	697879.635	5428223.42	0.05	4	-0.9	-1	4.42	24	23	12855	17	1.2	1.0	44.21	57	42.25
203	697852.315	5427879.906	-0.02	2	-0.9	1	2.13	12	8	5777	9	-0.9	-0.5	33.81	22	22.15
204	700257.454	5426951.376	0.04	4	-0.9	-1	3.43	18	21	9470	16	1.0	-0.5	57.25	69	54.24
205	700899.874	5427244.201	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
206	700641.405	5426193.256	0.04	8	-0.9	-1	4.22	21	18	29976	16	0.9	0.6	49.89	90	63.35
207	700332.5	5425444.554	-0.02	3	-0.9	-1	1.15	7	9	6698	7	-0.9	-0.5	7.315	19	13.79
208	700975.397	5424990.301	0.03	NM	N.M.	NM	3.48	11	63	5910	23	N.M.	N.M.	34.48	73	86.2
209	699697.678	5425250.826	0.03	2	N.M.	1	1.34	10	14	1877	9	N.M.	N.M.	24.04	62	76.12
210	699280.481	5423634.588	0.03	6	-0.9	-1	2.1	14	12	8182	10	-0.9	0.6	41.01	50	46.18
211	698795.728	5423385.82	0.03	6	N.M.	-1	2.44	16	19	10170	12	N.M.	N.M.	35.73	56	68.64
212	699715.601	5422656.412	0.03	4	N.M.	-1	2.9	11	14	6099	12	N.M.	N.M.	25.14	88	77.95
213	701829.66	5421255.209	0.04	5	-0.9	-1	6.11	26	12	22893	19	-0.9	0.6	72.46	73	24.09
214	702927.036	5422179.532	0.07	9	-0.9	1	2.63	10	30	7480	11	1.1	-0.5	38.91	72	69
215	703738.705	5421826.893	0.03	4	-0.9	4	4.85	21	14	10952	18	1.1	-0.5	70.84	62	35.93
216	701854.678	5420441.406	0.03	4	1.0	-1	5.75	22	9	25718	16	1.6	-0.5	68.67	60	16.22
217	701384.882	5419508.16	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
218	702386.475	5419386.958	0.03	3	-0.9	-1	2.99	14	14	9566	12	-0.9	-0.5	50.95	45	44.23
219	703409.41	5419263.743	0.04	3	-0.9	1	5.61	26	12	22246	18	1.0	-0.5	76.81	74	28.28
220	703191.906	5418839.677	0.03	6	1.1	-1	5.05	21	9	18148	15	-0.9	-0.5	64.24	52	17.89
221	706213.887	5418575.162	-0.02	2	-0.9	-1	0.96	4	8	10279	7	1.9	-0.5	9.245	53	76.72
222	705852.054	5418316.452	-0.02	3	N.M.	-1	1.89	10	9	7499	11	N.M.	N.M.	26.39	47	47.33
223	705670.653	5417923.306	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
224	707321.09	5416388.329	-0.02	7	N.M.	-1	1.61	4	13	3754	8	N.M.	N.M.	10.39	67	89.27
225	706972.291	5414690.192	0.02	6	-0.9	-1	4.13	17	17	8025	20	1.6	-0.5	43.05	64	61.95
226	707981.274	5414951.061	-0.02	7	N.M.	-1	2.2	6	13	2085	15	N.M.	N.M.	10.38	56	90.39
227	709008.96	5414303.89	0.04	3	-0.9	-1	5.33	28	19	24071	22	1.8	0.5	65.53	58	23.31
228	709544.715	5413582.981	-0.02	6	-0.9	2	2.09	4	18	4315	12	1.7	-0.5	10.015	88	87.91
229	709719.069	5412370.773	0.05	3	-0.9	2	6.41	31	15	15001	23	-0.9	-0.5	83.92	66	23.82
230	709190.087	5411619.515	0.03	2	-0.9	1	5.86	26	13	17511	18	-0.9	-0.5	72.73	60	24.97
231	707907.937	5411907.131	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
232	708041.638	5411924.533	0.05	1	N.M.	-1	1.34	7	12	4914	8	N.M.	N.M.	17.89	119	84.55
233	708393.164	5411574.297	0.05	4	96.2	-1	4.36	19	22	13959	18	-0.9	0.5	54.83	51	61.17
234	702142.357	5415996.381	-0.02	3	-0.9	2	2.82	12	10	7659	10	-0.9	-0.5	34.43	47	56.33
235	702665.041	5417358.271	-0.02	3	-0.9	2	3.04	14	8	8244	10	-0.9	-0.5	49.07	33	18.04
236	698542.24	5422428.105	-0.02	2	-0.9	-1	1.47	8	7	6143	6	-0.9	-0.5	16.81	44	53.33
237	699461.567	5425206.486	0.02	NM	N.M.	NM	2.06	17	12	3137	12	N.M.	N.M.	26.52	109	82.9
238	699113.286	5426201.294	-0.02	5	N.M.	-1	1.48	8	9	4481	6	N.M.	N.M.	15.47	79	89.84
239	699094.379	5425979.99	-0.02	7	N.M.	-1	1.45	7	10	3463	6	N.M.	N.M.	14.38	56	89.45
240	699153.938	5425777.027	0.03	5	N.M.	-1	1.88	8	13	3233	7	N.M.	N.M.	20.36	78	87.73
241	699363.734	5426676.006	0.02	3	N.M.	-1	0.9	6	10	1447	5	N.M.	N.M.	9.505	75	90.46
242	698958.495	5427332.407	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
243	686098.525	5425148.737	0.04	6	N.M.	3	3.15	14	21	6272	16	N.M.	N.M.	46.2	86	65.61
244	668030.834	5435802.662	0.04	4	N.M.	-1	2.53	11	29	4372	13	N.M.	N.M.	50.11	67	70.75
245	669892.541	5430701.596	0.05	9	N.M.	-1	4.29	12	26	14026	15	N.M.	N.M.	39.15	89	73.88
246	676880.627	5428039.338	-0.02	3	-0.9	-1	1.3	5	22	2731	6	-0.9	-0.5	18.21	52	52.62
247	692266.408	5425163.535	0.04	4	N.M.	-1	1.49	7	15	2728	9	N.M.	N.M.	36.45	64	82.63
248	693674.493	5424850.222	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
249	697588.028	5426206.699	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
250	698406.971	5424911.493	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
251	697169.264	5421370.645	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
252	698498.861	5421013.991	0.06	2	-0.9	-1	5.41	24	11	12908	16	-0.9	-0.5	77.66	47	10.89
253	699114.762	5420513.312	0.11	7	N.M.	2	3.51	23	21	16358	15	N.M.	N.M.	62.37	69	67.94
254	700351.78	5420063.169	0.06	8	-0.9	1	3.76	20	29	47898	22	-0.9	0.9	42.95	106	70.2
255	700574.467	5417058.788	0.04	4	-0.9	-1	4.81	21	12	16220	18	-0.9	-0.5	52.09	82	52.48
256	702658.362	5415301.001	0.04	6	-0.9	-1	3.98	23	17	42484	19	-0.9	-0.5	56.13	74	45.76
257	704244.106	5414794.225	0.1	4	-0.9	3	5.72	29	19	15116	21	-0.9	-0.5	79.36	114	45.19
258	707905.032	5413104.22	0.03	2	-0.9	-1	3.95	21	7	12453	13	-0.9	-0.5	56.25	44	20.29
259	708785.569	5410013.314	0.06	2	-0.9	-1	5.16	26	14	19298	18	-0.9	0.9	80.29	45	21.09
260	708314.231	5409780.756	0.07	3	-0.9	-1	6.32	30	19	18124	22	-0.9	-0.5	94.14	69	29.88
261	709539.808	5408184.434	0.04	3	N.M.	2	2.26	9	20	3761	12	N.M.	N.M.	31.63	57	82.26
262	708985.633	5407575.243	0.05	2	N.M.	-1	1.79	11	37	2310	14	N.M.	N.M.	95.54	53	79.81
263	708208.962	5407284.034	0.04	3	N.M.	-1	2.28	14	23	2070	16	N.M.	N.M.	39.75	56	89.01
264	707688.846	5406359.533	0.03	4	N.M.	-1	1.84	10	20	4751	15	N.M.	N.M.	32.85	91	77.52

Site	Easting	Northing	Ag	As	Au	Au	Co	Cr	Cu	Fe	Ni	Pd	Pt	Total	Zn	LOI
	NAD 27	Method----->	ICP-MS	INAA	FA	INAA	ICP-MS	ICP-OES	ICP-OES	ICP-OES	ICP-OES	FA	FA	REEs	ICP-OES	Grav
	UTM Zone 16	Units----->	ppm	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppb	ppb	La to Lu	ppm	%
		D. L.----->	0.02	1	0.9	1	0.05	4	5	5	5	0.9	0.5		2	0.05
265	705514.544	5405940.181	0.04	3	N.M.	2	2.3	16	13	3851	12	N.M.	N.M.	32.3	60	68.39
266	706187.167	5407055.048	0.04	2	N.M.	-1	1.66	12	12	2864	9	N.M.	N.M.	26.17	72	76.7
267	706263.381	5410265.679	0.03	2	-0.9	-1	1.77	6	35	17919	9	-0.9	-0.5	11.01	127	55.55
268	706989.128	5409648.666	0.02	3	-0.9	-1	1.88	10	8	8572	8	-0.9	-0.5	16.11	85	70.57
269	706903.223	5409338.395	0.1	3	-0.9	-1	7.48	32	23	13285	22	-0.9	-0.5	81.53	95	41.33
270	707516.111	5408628.833	0.07	2	-0.9	3	5.47	27	18	16457	19	-0.9	-0.5	84.44	65	31.02
271	707108.806	5408302.52	0.05	3	-0.9	3	3.29	13	11	6921	12	-0.9	-0.5	38.28	33	18.01
272	705488.83	5409034.028	0.02	NM	N.M.	NM	0.73	5	6	2295	6	N.M.	N.M.	10.045	60	89.29
273	703698.414	5409430.844	-0.02	4	N.M.	-1	2.1	10	9	6022	12	N.M.	N.M.	26.54	73	62.95
274	702920.1	5412613.059	0.03	6	N.M.	-1	0.82	-4	8	1529	6	N.M.	N.M.	13.23	84	84.78
275	701272.651	5412827.03	0.06	5	-0.9	-1	5.24	24	16	34559	18	-0.9	-0.5	60.78	74	43.65
276	698732.274	5416307.259	0.03	NM	N.M.	NM	1.69	11	13	4824	12	N.M.	N.M.	17.04	51	87.65
277	699599.714	5417534.641	0.05	12	N.M.	2	2.49	8	12	8717	12	N.M.	N.M.	23.4	98	79.61
278	698859.02	5418038.244	0.06	7	-0.9	-1	4.31	23	17	16302	16	-0.9	-0.5	55.53	81	57.27
279	697664.217	5417377.717	0.03	3	-0.9	-1	2.59	13	10	21010	10	-0.9	-0.5	25.76	34	25.2
280	697496.017	5416604.652	0.04	6	-0.9	2	2.14	10	10	12293	8	-0.9	-0.5	16.19	29	45.02
281	697279.84	5417061.639	-0.02	2	N.M.	-1	0.92	5	6	9663	-5	N.M.	N.M.	6.17	33	53.46
282	697093.988	5417113.695	0.07	3	N.M.	-1	2.05	14	12	3415	9	N.M.	N.M.	30.31	62	72.63
283	696426.541	5416126.794	0.02	5	N.M.	-1	2.27	6	14	1225	9	N.M.	N.M.	8.995	64	88.92
284	696917.849	5415959.32	0.04	1	N.M.	-1	1.11	14	9	1527	8	N.M.	N.M.	17.9	95	81.94
285	698294.594	5420049.301	0.03	3	N.M.	-1	0.74	-4	-5	1695	-5	N.M.	N.M.	7.725	53	89.27
286	697901.687	5420254.995	0.05	3	N.M.	-1	2.49	13	12	3605	8	N.M.	N.M.	32.41	83	73.6
287	697977.987	5419779.569	0.06	2	N.M.	-1	2.3	13	11	2576	8	N.M.	N.M.	33.39	111	81.22
288	694138.435	5423495.449	-0.02	4	N.M.	-1	4.27	12	15	10341	16	N.M.	N.M.	43.488	30	7.94
289	692260.634	5424429.532	0.04	NM	N.M.	NM	1.18	9	16	2390	9	N.M.	N.M.	28.16	52	79.35
290	676855.516	5436533.447	0.07	3	N.M.	1	3.36	16	14	6477	12	N.M.	N.M.	46.34	74	67.19
291	676622.899	5436208.029	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
292	676114.233	5436245.551	0.09	NM	N.M.	NM	2.1	11	12	3630	8	N.M.	N.M.	30.02	83	83.63
293	676164.3	5435619.775	0.03	4	N.M.	-1	1.11	6	7	1683	5	N.M.	N.M.	10.145	42	90.51
294	674096.145	5434757.467	0.04	4	-0.9	-1	3.19	15	-5	11824	8	-0.9	-0.5	44.89	28	25.14
295	671218.58	5435412.502	0.05	2	N.M.	2	1.28	8	11	1779	6	N.M.	N.M.	22.74	105	81.38
296	669895.173	5435191.552	0.05	2	-0.9	2	2.3	18	10	5817	10	-0.9	-0.5	53.96	62	24.27
297	670004.492	5438100.091	0.08	-1	-0.9	3	4.07	22	7	9519	12	-0.9	-0.5	65.32	39	13.19
298	670476.67	5437459.528	0.05	3	N.M.	1	0.86	5	7	3653	-5	N.M.	N.M.	12.81	68	89.69
299	670587.557	5437248.585	0.07	2	-0.9	3	3.06	17	11	11673	12	-0.9	-0.5	53.38	33	27.63
300	667571.688	5433446.275	0.03	5	N.M.	1	2.45	12	19	9138	9	N.M.	N.M.	20.2	50	38.85
301	676876.797	5425068.347	0.08	3	1.8	-1	5.07	17	16	11046	16	-0.9	-0.5	57.01	86	62.64
302	681823.374	5422947.337	0.05	4	N.M.	2	1.16	5	18	1701	8	N.M.	N.M.	21.62	66	84.74
303	685233.874	5421400.242	0.06	7	-0.9	-1	7.36	16	25	13062	17	-0.9	-0.5	51.35	60	64.39
304	685661.867	5424421.022	0.05	3	N.M.	1	2.34	10	15	4149	13	N.M.	N.M.	32.07	65	73.63
305	690727.71	5424583.456	0.07	3	-0.9	-1	5.04	22	24	12618	20	-0.9	-0.5	84.73	45	25.01
306	690686.462	5423240.53	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
307	692531.185	5423116.69	0.06	2	-0.9	-1	5.34	25	14	13990	18	-0.9	-0.5	91.08	46	11.6
308	695458.822	5422206.363	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
309	694275.369	5420519.298	0.09	2	-0.9	2	4.02	16	12	8072	13	-0.9	-0.5	57.05	26	9.65
310	697069.24	5420300.303	0.02	2	-0.9	-1	2.92	15	5	6023	11	-0.9	-0.5	49.09	19	6.29
311	697557.407	5420314.844	0.05	6	N.M.	1	3.42	20	24	9501	16	N.M.	N.M.	46.31	74	66.51
312	698980.657	5419863.616	0.05	6	-0.9	1	3.06	17	7	10362	10	-0.9	-0.5	44.71	30	33.77
313	698304.858	5419040.126	0.05	7	-0.9	2	3.71	30	18	83942	19	-0.9	-0.5	56.81	55	42.74
314	698038.425	5418695.231	0.05	5	-0.9	-1	3.44	21	15	31318	14	-0.9	-0.5	57.8	41	42.8
315	697626.456	5418549.792	0.06	3	N.M.	-1	2.82	14	22	3213	13	N.M.	N.M.	29.97	77	77.44
316	696419.199	5418364.557	0.08	4	N.M.	-1	2.57	9	30	6070	13	N.M.	N.M.	34.89	68	78.21
317	696983.345	5418077.635	0.04	3	N.M.	1	1.07	5	13	1897	6	N.M.	N.M.	14.12	67	88.28
318	697203.091	5417688.306	0.07	2	-0.9	-1	3.16	25	12	5667	16	-0.9	-0.5	38.74	53	35.34
319	696443.545	5417396.349	0.03	4	N.M.	-1	2.88	8	23	3716	29	N.M.	N.M.	21.33	74	85.12
320	696601.886	5416778.37	0.04	2	N.M.	-1	1.02	5	10	1478	-5	N.M.	N.M.	14.69	58	88.64
321	696809.561	5416158.438	0.04	4	-0.9	17	4.18	24	13	10885	14	-0.9	-0.5	55.71	52	40.68
322	696552.892	5415577.864	-0.02	3	-0.9	-1	0.84	8	7	5774	6	-0.9	-0.5	17.78	31	41.04
323	696924.84	5415442.552	0.03	2	-0.9	-1	2.67	13	7	11633	9	-0.9	-0.5	38.89	24	12.84
324	697176.019	5415672.973	0.05	2	-0.9	-1	3.28	19	7	8450	10	-0.9	-0.5	40.9	35	19.32
325	697264.136	5415234.949	0.02	3	N.M.	2	2.2	20	16	4193	13	N.M.	N.M.	31.71	50	75.31
326	697439.49	5414474.396	0.05	4	N.M.	1	2.2	15	17	3530	9	N.M.	N.M.	36.08	67	73.51
327	696750.191	5414356.216	-0.02	2	-0.9	-1	0.8	7	9	2951	5	-0.9	-0.5	6.37	16	21.93
328	696201.253	5414513.307	0.11	4	-0.9	1	2.49	16	9	9613	10	-0.9	-0.5	42.92	41	41.17
329	696899.403	5413763.963	0.04	5	-0.9	-1	2.39	15	10	16943	9	-0.9	-0.5	33.06	31	33.76
330	696959.906	5413462.991	-0.02	7	-0.9	-1	1.37	8	11	6273	7	-0.9	-0.5	9.055	19	23.4

Site	Easting	Northing	Ag	As	Au	A u	Co	Cr	Cu	Fe	Ni	Pd	Pt	Total	Zn	LOI
	NAD 27	Method----->	ICP-MS	INAA	FA	INAA	ICP-MS	ICP-OES	ICP-OES	ICP-OES	ICP-OES	FA	FA	REEs	ICP-OES	Grav.
	UTM Zone 16	Units----->	ppm	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppb	ppb	La to Lu	ppm	%
		D. L.----->	0.02	1	0.9	1	0.05	4	5	5	5	0.9	0.5		2	0.05
331	696511.185	5412737.634	-0.02	-1	-0.9	-1	0.91	6	5	1797	-5	-0.9	-0.5	5.775	9	6.15
332	697420.354	5412205.228	0.04	8	-0.9	-1	3.88	18	16	14918	14	-0.9	-0.5	48.29	54	38.37
333	698520.212	5412338.765	-0.02	4	-0.9	1	2.38	15	11	4513	12	-0.9	-0.5	41.1	66	38.94
334	699040.419	5411753.876	-0.02	6	-0.9	-1	2.45	14	10	28562	11	-0.9	-0.5	27.55	40	26.77
335	700964.744	5410534.698	-0.02	3	N.M.	2	1.36	5	12	4370	5	N.M.	N.M.	13.94	50	87.76
336	700928.544	5409872.072	-0.02	5	N.M.	-1	1.64	9	13	8641	7	N.M.	N.M.	24.33	61	79.31
337	699549.617	5410693.796	-0.02	4	-0.9	-1	0.89	9	7	16798	5	-0.9	-0.5	2.415	16	29.46
338	699439.03	5409893.642	0.08	6	N.M.	-1	1.13	11	8	7961	6	N.M.	N.M.	24.99	51	73.66
339	697987.54	5410410.947	-0.02	3	-0.9	-1	0.69	6	-5	8516	-5	-0.9	-0.5	1.5725	13	23.07
340	698373.669	5410193.547	0.02	5	-0.9	-1	2.66	14	11	7896	9	-0.9	-0.5	27.76	41	42.14
341	698725.831	5409783.813	0.1	7	-0.9	-1	1.05	11	8	60304	9	-0.9	-0.5	8.295	29	21.57
342	698736.191	5410155.836	-0.02	1	-0.9	-1	0.69	6	-5	1388	-5	-0.9	-0.5	2.135	9	11.58
343	698443.737	5409534.134	-0.02	3	N.M.	-1	1.25	10	9	2277	-5	N.M.	N.M.	20.63	56	81.21
344	698179.04	5409228.315	0.06	6	-0.9	-1	1.42	13	7	16253	5	0.9	-0.5	4.33	19	33.5
345	697637.157	5408909.432	0.05	11	N.M.	3	2.51	17	11	16332	9	N.M.	N.M.	28.12	54	72.21
346	693637.395	5407139.234	-0.02	3	-0.9	-1	1.03	-4	9	1928	6	-0.9	-0.5	5.205	48	47.1
347	696693.607	5411286.19	-0.02	7	-0.9	2	2.31	5	7	4995	7	-0.9	-0.5	13.84	115	84.73
348	697535.982	5411263.742	0.17	4	N.M.	-1	4.11	18	21	11874	16	N.M.	N.M.	51.34	59	46.56
349	695236.159	5411745.622	0.11	3	-0.9	-1	1.19	4	6	7620	5	-0.9	-0.5	9.23	63	88.34
350	694832.161	5411758.764	0.1	4	-0.9	-1	1.33	5	6	11836	5	-0.9	-0.5	10.47	69	87.56
351	693476.411	5413539.92	0.05	6	-0.9	3	1.59	4	6	8459	6	1.4	-0.5	7.995	51	83.98
352	693578.546	5414340.428	0.1	4	N.M.	1	0.62	-4	-5	1896	-5	N.M.	N.M.	11.57	67	89.01
353	697183.262	5414300.121	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
354	692587.879	5419209.119	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
355	685332.983	5421429.876	0.06	4	-0.9	-1	6.69	26	18	13637	19	0.9	-0.5	70.36	72	34.83
356	679041.167	5425482.77	0.07	NM	N.M.	NM	1.14	7	12	1611	8	N.M.	N.M.	22.76	65	86.23
357	668566.539	5437080.729	0.02	4	N.M.	1	2.62	8	26	3862	10	N.M.	N.M.	24.83	112	81.53
358	667850.665	5434691.804	0.09	3	N.M.	-1	1	9	10	3084	8	N.M.	N.M.	18.07	47	77.93
359	668457.748	5433495.949	-0.02	NM	N.M.	NM	2.26	11	11	3501	8	N.M.	N.M.	25.92	60	75.21
360	676731.56	5424497.889	0.05	2	-0.9	-1	4.95	27	12	13569	16	-0.9	-0.5	73	44	21.51
361	678170.924	5424969.404	0.03	4	N.M.	-1	2.39	13	19	5043	14	N.M.	N.M.	38.51	91	78.02
362	683646.792	5417725.797	0.09	3	1.0	1	4.83	25	22	11998	21	1.0	0.5	64.42	67	51.04
363	684761.213	5417792.239	0.05	3	-0.9	-1	4.46	21	22	10030	19	-0.9	-0.5	67.54	49	53.89
364	684334.73	5417344.833	0.04	3	N.M.	-1	3.08	15	23	6486	15	N.M.	N.M.	53.58	46	63.78
365	690898.864	5417091.124	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
366	690514.453	5415986.777	-0.02	20	-0.9	-1	2.11	8	7	7551	9	-0.9	-0.5	18.46	21	12.95
367	691501.819	5416168.756	-0.02	4	N.M.	-1	4.23	16	11	22081	18	N.M.	N.M.	54.73	59	32.54
368	692253.263	5416781.435	0.02	3	-0.9	2	2.43	12	9	8372	8	1.3	-0.5	32.94	39	60.87
369	693387.574	5417067.85	0.02	3	N.M.	-1	1.92	9	31	10460	15	N.M.	N.M.	25.32	75	80.34
370	693782.34	5416546.952	0.29	4	N.M.	1	2.95	23	10	11419	13	N.M.	N.M.	38.25	43	56.19
371	693275.004	5416262.556	0.26	8	N.M.	-1	2.28	10	21	35917	12	N.M.	N.M.	24.4	126	80.44
372	694195.027	5415956.491	0.23	3	-0.9	1	2.4	13	6	9277	8	1.1	-0.5	40.28	35	35.66
373	692931.174	5415413.635	-0.02	41	N.M.	-1	1.1	8	7	13431	6	N.M.	N.M.	11.46	55	76.76
374	692560.908	5414760.512	0.02	12	N.M.	-1	2.06	10	9	7913	9	N.M.	N.M.	28.61	80	67.8
375	693898.529	5415215.269	0.03	6	N.M.	-1	3.06	17	18	10766	12	N.M.	N.M.	40.87	50	60.35
376	695082.231	5414951.208	0.03	3	-0.9	-1	2.58	14	13	7331	11	1.0	0.5	41.82	62	58.7
377	694622.775	5414611.611	0.04	5	-0.9	-1	3.13	19	13	12346	12	1.7	-0.5	41.68	50	54.53
378	694833.717	5414034.784	0.12	6	N.M.	-1	2.68	21	11	11258	12	N.M.	N.M.	40.64	42	62.12
379	695512.636	5414654.882	-0.02	4	N.M.	-1	3.08	14	16	9051	10	N.M.	N.M.	33.4	58	75.46
380	694351.298	5412926.948	0.1	3	N.M.	1	2.02	12	8	3775	7	N.M.	N.M.	25.82	51	75.94
381	693284.915	5412296.683	0.12	4	-0.9	-1	4.38	19	12	7777	14	-0.9	-0.5	53.24	74	48.31
382	695847.489	5410776.253	0.09	NM	N.M.	NM	2.26	10	9	5648	8	N.M.	N.M.	27.8	48	75.32
383	697410.272	5410564.845	0.13	5	-0.9	2	4.39	20	14	26986	15	-0.9	-0.5	55.49	64	48.76
384	696206.225	5408650.828	0.1	5	-0.9	-1	3.29	13	9	9908	11	-0.9	-0.5	42.48	66	52.38
385	695976.86	5407770.166	0.1	4	-0.9	-1	3.92	15	6	10772	12	-0.9	-0.5	56.89	42	12.35
386	695332.91	5407137.606	0.04	5	-0.9	-1	3.85	17	11	9302	14	-0.9	-0.5	54.02	68	47.99
387	694568.246	5406521.351	0.04	4	-0.9	-1	5.56	22	12	10556	17	-0.9	-0.5	64.68	103	42.41
388	697240.769	5407534.286	0.03	4	-0.9	1	3.41	18	11	10238	14	-0.9	-0.5	54.88	46	28.82
389	695951	5406437.864	0.02	5	N.M.	2	1.96	12	9	9534	10	N.M.	N.M.	37.95	49	56.73
390	694850.693	5406036.893	-0.02	3	-0.9	-1	2.52	14	9	13576	11	-0.9	-0.5	36.9	34	43.18
391	695331.685	5405852.648	-0.02	7	-0.9	-1	1.94	11	8	7351	10	-0.9	-0.5	26.31	30	27.64
392	694783.761	5405236.502	0.02	4	-0.9	1	2.99	19	12	71174	16	-0.9	-0.5	38.58	51	33.72
393	694010.964	5405392.813	0.07	3	N.M.	2	1.91	14	10	6343	10	N.M.	N.M.	34.78	35	69.42
394	693079.232	5404873.54	0.08	2	-0.9	-1	3.09	15	10	5705	10	-0.9	-0.5	56.96	51	25.47
395	694263	5403978.092	0.06	3	-0.9	-1	2.47	13	12	17701	10	1.1	-0.5	23.15	35	19.53
396	693054.193	5402656.453	0.1	2	-0.9	2	3.89	20	11	6374	13	-0.9	-0.5	69.84	48	34.22

Site	Easting	Northing	Ag	As	Au	A u	Co	Cr	Cu	Fe	Ni	Pd	Pt	Total	Zn	LOI
	NAD 27	Method----->	ICP-MS	INAA	FA	INAA	ICP-MS	ICP-OES	ICP-OES	ICP-OES	ICP-OES	FA	FA	REEs	ICP-OES	Grav
	UTM Zone 16	Units------->	ppm	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppb	ppb	La to Lu	ppm	%
		D. L.-------->	0.02	1	0.9	1	0.05	4	5	5	5	0.9	0.5		2	0.05
397	702302.948	5402419.762	0.09	2	-0.9	-1	1.34	-4	10	2541	-5	1.0	-0.5	10.69	28	88.44
398	703250.528	5400838.457	0.05	4	N.M.	2	1.75	7	17	2239	17	N.M.	N.M.	24.48	67	82.56
399	705219.428	5401313.021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
400	694489.991	5398966.369	0.08	2	N.M.	2	2.98	11	40	1615	14	N.M.	N.M.	255.19	38	64.74
401	693004.213	5402249.434	0.09	2	-0.9	-1	2.24	8	13	3607	9	-0.9	-0.5	30.33	50	72.28
402	692091.66	5403045.949	0.07	NM	N.M.	NM	1.14	9	18	2390	10	N.M.	N.M.	19.19	52	85.25
403	690989.786	5402651.159	0.07	3	N.M.	-1	1.33	7	14	3390	9	N.M.	N.M.	24.77	67	77.23
404	686836.301	5407672.638	-0.02	1	N.M.	-1	3.95	14	8	7783	14	N.M.	N.M.	66.493	25	6.64
405	688596.62	5413327.497	0.07	8	1.2	2	7.22	13	22	11808	15	1.6	0.6	63.9	19	67.03
406	690314.704	5415487.362	0.06	7	-0.9	-1	1.7	8	12	20001	9	-0.9	-0.5	21.89	72	41.54
407	688688.922	5415843.983	NM	3	NM	-1	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
408	684832.144	5415118.462	0.11	3	-0.9	2	8.68	40	16	23994	25	-0.9	-0.5	139.12	71	15.2
409	683777.852	5416017.556	0.1	3	-0.9	-1	6.93	30	25	15750	22	-0.9	-0.5	105.53	54	24.97
410	678766.945	5420511.859	0.05	2	N.M.	2	1.04	6	15	1350	7	N.M.	N.M.	22.85	62	84.42
411	678675.417	5418638.747	0.06	2	-0.9	-1	2.81	16	13	6759	9	-0.9	-0.5	47.51	50	38.35
412	678350.585	5423607.12	0.06	3	N.M.	-1	1.04	6	10	1571	7	N.M.	N.M.	19.25	74	84.96
413	670785.582	5426442.166	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
414	666866.632	5430412.32	0.1	3	-0.9	-1	3.28	16	13	16384	12	-0.9	-0.5	41.61	35	44.54
415	668787.284	5431802.14	0.08	2	-0.9	4	4.09	22	16	10703	12	-0.9	-0.5	74.01	33	17.76
416	663665.956	5439945.357	0.11	3	N.M.	2	3.13	20	13	4557	10	N.M.	N.M.	50.21	72	55.81
417	665541.044	5436719.395	0.05	4	N.M.	1	2.22	10	30	4082	14	N.M.	N.M.	68.21	78	73.86
418	664693.879	5431520.84	0.08	2	-0.9	-1	5.15	20	11	12122	16	-0.9	-0.5	65.9	48	34.83
419	672197.873	5423171.622	0.12	3	N.M.	1	5.26	22	44	10892	21	N.M.	N.M.	102.65	97	62.75
420	676465.017	5421124.668	0.06	5	N.M.	-1	3.57	13	29	5139	19	N.M.	N.M.	42.17	84	80.18
421	675667.621	5421755.321	0.09	3	-0.9	-1	5.73	23	27	11986	20	-0.9	-0.5	91.18	90	55.51
422	676153.27	5415767.522	0.06	4	N.M.	-1	2.53	12	30	5484	16	N.M.	N.M.	38.92	64	57.42
423	677439.725	5415155.426	0.05	9	N.M.	2	3.42	26	15	8318	19	N.M.	N.M.	46.81	73	51.86
424	679317.158	5411952.252	0.06	3	-0.9	-1	2.18	12	6	9053	7	-0.9	-0.5	38.23	33	41.49
425	683050.783	5411087.299	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
426	683189.76	5411855.2	0.08	4	-0.9	-1	5.9	25	19	12560	18	-0.9	-0.5	89.91	46	35.36
427	684184.852	5411297.098	0.12	2	-0.9	1	8.53	36	14	18898	23	-0.9	-0.5	117.28	61	11.79
428	684580.581	5413766.638	0.09	3	-0.9	4	7.82	31	21	17461	23	-0.9	-0.5	114.01	58	21.76
429	685135.855	5408300.161	0.11	3	-0.9	-1	10.56	43	16	26367	29	-0.9	-0.5	140.44	72	11.66
430	685038.434	5405820.27	0.08	5	-0.9	-1	4.8	21	11	31745	15	-0.9	-0.5	72.29	38	36.79
431	684824.925	5405873.672	0.07	2	-0.9	-1	3.46	19	14	6069	13	1.4	0.5	51.82	87	58.24
432	685487.762	5404729.273	0.06	3	N.M.	2	2.8	15	14	9448	13	N.M.	N.M.	45.98	35	52.05
433	683482.545	5403062.095	0.05	1	-0.9	-1	3.26	20	7	7210	12	-0.9	-0.5	54.62	47	21.46
434	687701.779	5398795.115	0.1	2	-0.9	7	4.46	26	14	11952	16	-0.9	-0.5	95.53	36	14.06
435	691793.504	5397072.519	0.08	3	-0.9	-1	5.73	27	22	13477	19	-0.9	-0.5	105.08	45	30.04
436	693692.415	5396095.342	0.08	2	0.9	-1	6.56	31	27	13835	24	1.0	-0.5	72.79	52	44.3
437	693844.128	5395591.064	0.1	2	-0.9	-1	8.53	40	21	20438	27	-0.9	-0.5	116.17	69	32.37
438	697549.807	5394456.539	0.04	5	-0.9	-1	1.76	5	7	6969	8	-0.9	-0.5	21.01	20	84.62
439	696512.497	5395321.805	0.07	2	N.M.	-1	4.27	16	13	5202	12	N.M.	N.M.	36.34	150	84.32
440	696435.476	5394924.181	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
441	695910.07	5394639.482	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
442	695775.159	5393922.917	0.08	2	-0.9	-1	4.07	28	17	6028	19	-0.9	-0.5	56.8	89	66.27
443	695390.914	5393212.813	0.09	3	-0.9	1	8.72	42	23	18095	29	-0.9	-0.5	103.01	76	37.7
444	694805.127	5392397.678	0.08	3	-0.9	-1	9.09	42	23	16959	29	-0.9	-0.5	107.68	64	49.44
445	694660.93	5392870.789	0.34	6	-0.9	2	10.49	49	26	36139	33	-0.9	-0.5	125.51	68	19.51
446	699278.737	5390616.79	0.12	3	-0.9	-1	13.08	52	23	27515	34	-0.9	-0.5	191.78	83	14.38
447	701287.232	5391662.217	0.13	4	-0.9	1	11.56	44	39	16600	31	-0.9	-0.5	225.89	96	47.36
448	701061.207	5391739.972	0.09	3	N.M.	1	5.18	23	30	8078	17	N.M.	N.M.	78.91	79	70.82
449	700774.714	5393522.001	0.1	4	-0.9	-1	12.02	49	29	24308	33	-0.9	-0.5	153.55	73	17.59
450	701815.911	5393250.933	0.1	3	-0.9	-1	10.37	43	26	20778	30	-0.9	-0.5	139.14	77	26.15
451	699798.117	5393992.399	0.04	3	N.M.	-1	3.54	13	15	3881	19	N.M.	N.M.	35.14	47	79.03
452	700639.134	5395482.061	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
453	701983.012	5396722.104	0.08	4	-0.9	2	7.92	31	22	15250	22	-0.9	-0.5	111.53	52	16.58
454	700908.5	5399601.362	0.03	2	N.M.	2	4.42	13	19	4615	17	N.M.	N.M.	43.87	57	55.55
455	699266.396	5398629.861	0.06	5	N.M.	-1	6.97	30	18	12696	22	N.M.	N.M.	75.4	84	50.38
456	691666.562	5398218.1	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
457	690574.284	5398915.384	0.03	2	-0.9	1	5.13	22	7	11009	15	-0.9	-0.5	84.93	28	3.4
458	686972.177	5402266.554	-0.02	1	-0.9	-1	0.92	7	15	896	7	-0.9	-0.5	3.745	8	11.7
459	681699.216	5403171.512	-0.02	9	-0.9	-1	1.99	10	11	4775	13	-0.9	-0.5	22.24	26	41.42
460	677388.484	5418221.374	0.02	4	N.M.	-1	3	9	21	5547	13	N.M.	N.M.	32.1	72	59.92
461	667606.294	5432930.281	-0.02	3	-0.9	3	2.2	12	8	5980	8	-0.9	-0.5	28.79	21	25.67
462	666548.937	5432721.462	0.04	3	-0.9	2	3.96	19	8	10114	12	-0.9	-0.5	61.73	32	25.29

Site	Easting	Northing	Ag	As	Au	A u	Co	Cr	Cu	Fe	Ni	Pd	Pt	Total	Zn	LOI
	NAD 27	Method----->	ICP-MS	INAA	FA	INAA	ICP-MS	ICP-OES	ICP-OES	ICP-OES	ICP-OES	FA	FA	REEs	ICP-OES	Grav.
	UTM Zone 16	Units----->	ppm	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppb	ppb	La to Lu	ppm	%
		D. L.----->	0.02	1	0.9	1	0.05	4	5	5	5	0.9	0.5		2	0.05
463	665675.343	5441105.815	0.02	2	-0.9	-1	2.44	13	6	6072	8	-0.9	-0.5	38.07	33	28.56
464	665348.44	5441603.641	0.04	4	-0.9	-1	3.53	14	14	21431	8	-0.9	-0.5	26.28	28	26.45
465	669263.956	5442173.128	0.03	2	-0.9	-1	3.05	18	8	8271	12	-0.9	-0.5	51.82	28	21.15
466	675059.018	5447562.11	0.04	2	-0.9	-1	3.91	20	8	9272	11	-0.9	-0.5	66.1	29	18.94
467	674844.784	5449007.753	0.02	3	N.M.	1	2.16	14	12	4041	9	N.M.	N.M.	33.03	57	77.24
468	680650	5445750	0.07	4	-0.9	-1	7.87	31	11	22041	20	-0.9	-0.5	91.41	81	20.02
469	678230.634	5446050.45	-0.02	7	N.M.	1	1.56	9	13	2497	8	N.M.	N.M.	22.72	44	58.91
470	678410.958	5448059.274	0.06	4	N.M.	2	3.78	22	19	7771	13	N.M.	N.M.	46.46	57	66.06
471	677800.992	5447775.066	0.03	8	-0.9	-1	4.46	17	23	13332	13	-0.9	0.6	25.27	44	44.42
472	678042.568	5447432.158	-0.02	4	N.M.	-1	1.95	5	9	6524	-5	N.M.	N.M.	4.975	79	90.6
473	677494.977	5447152.527	0.04	7	-0.9	-1	3.93	18	11	15402	14	-0.9	-0.5	60.31	35	10.61
474	677220	5446650	0.05	20	-0.9	-1	5.79	23	18	30962	16	-0.9	0.5	58.17	88	26.16
475	676795.659	5446201.306	0.05	3	N.M.	-1	2.41	13	15	3523	9	N.M.	N.M.	27.98	84	77.22
476	676630.402	5445785.289	0.03	4	N.M.	-1	3.63	26	20	8370	13	N.M.	N.M.	45.3	76	65.63
477	676936.279	5445588.876	-0.02	1	-0.9	1	2.52	18	8	5229	9	-0.9	-0.5	46.35	48	27.02
478	674513.83	5444489.173	0.05	NM	N.M.	NM	2.67	22	22	8634	13	N.M.	N.M.	41.61	63	58.93
479	674465.936	5444101.456	0.04	6	N.M.	3	4.09	24	24	12983	16	N.M.	N.M.	61.68	79	56.76
480	674120.472	5443996.01	0.02	4	N.M.	-1	4.67	28	17	10311	17	N.M.	N.M.	62.02	60	56.21
481	674601.926	5443881.114	-0.02	2	-0.9	-1	1.68	10	8	3115	7	-0.9	-0.5	18.67	15	16.6
482	674118.827	5443513.205	-0.02	17	N.M.	-1	4.14	19	15	6605	13	N.M.	N.M.	35.7	54	71.52
483	673859.675	5443465.071	0.02	4	N.M.	-1	6.47	29	14	10817	19	N.M.	N.M.	65.67	65	40.17
484	673499.374	5443815.075	0.02	NM	N.M.	NM	2.49	19	12	3118	11	N.M.	N.M.	32.81	95	78.94
485	673194.278	5444042.828	-0.02	4	N.M.	2	1.76	8	10	10350	7	N.M.	N.M.	22.45	54	78.76
486	672773.106	5443486.751	-0.02	8	N.M.	2	3.34	14	18	11885	13	N.M.	N.M.	43.87	55	68.15
487	673228.989	5443406.178	-0.02	4	N.M.	-1	4.04	19	17	7754	12	N.M.	N.M.	42.1	55	63.62
488	673349.837	5443214.013	0.04	4	N.M.	-1	4.83	23	20	9800	15	N.M.	N.M.	64.1	73	55.64
489	672771.772	5442735.363	0.02	3	N.M.	-1	3.63	18	15	5981	11	N.M.	N.M.	51.78	91	65.87
490	675757.01	5448029.503	-0.02	16	-0.9	-1	0.96	6	-5	47835	7	-0.9	0.6	11.73	26	27.18
491	673604.524	5448335.45	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
492	671968.474	5445893.339	-0.02	3	-0.9	-1	5.65	25	11	10995	18	-0.9	-0.5	69.92	50	22.53
493	672273.07	5445609.537	-0.02	9	N.M.	3	6.23	25	16	17980	17	N.M.	N.M.	65.02	47	24.77
494	668598.626	5442590.848	0.11	2	N.M.	-1	2.76	27	12	3417	15	N.M.	N.M.	40.88	117	74.32
495	665649.455	5443204.603	-0.02	3	-0.9	-1	2.28	12	-5	9298	6	-0.9	-0.5	35.5	27	26.11
496	666249.711	5442960.889	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
497	666628.904	5442718.09	-0.02	3	N.M.	-1	1.82	9	9	2568	5	N.M.	N.M.	17.1	72	82.04
498	669993.334	5438312.012	0.07	2	N.M.	2	2.86	19	12	4549	11	N.M.	N.M.	38.29	83	53.53
499	670630.417	5438617.371	-0.02	3	-0.9	-1	3.55	21	8	11467	11	-0.9	-0.5	48.8	33	25.09
500	671568.596	5437447.37	-0.02	6	N.M.	1	1.37	7	15	11413	9	N.M.	N.M.	16.28	129	86.84
501	672291.435	5440526.854	-0.02	1	-0.9	-1	0.93	9	10	3155	6	-0.9	-0.5	3.515	13	10.44
502	664886.249	5440500.746	-0.02	3	N.M.	-1	1.64	14	10	2815	8	N.M.	N.M.	26.27	53	75.09
503	663577.471	5440173.435	-0.02	3	N.M.	-1	2.02	12	14	2461	8	N.M.	N.M.	29.03	90	71.27
504	663867.372	5439815.566	-0.02	3	N.M.	2	2.2	15	10	4981	9	N.M.	N.M.	34.31	48	66.17
505	671080.545	5434984.586	0.02	7	-0.9	1	4.04	25	33	29506	16	1.0	0.6	46.67	82	46.69
506	671249.789	5434817.218	-0.02	3	-0.9	-1	3.18	16	13	20525	14	-0.9	-0.5	44.79	33	15.03
507	670630.956	5434546.46	-0.02	3	N.M.	1	1.19	7	9	1493	8	N.M.	N.M.	15.52	58	83.53
508	674503.955	5421893.853	-0.02	3	N.M.	1	2.76	15	20	7086	13	N.M.	N.M.	47.44	74	53.84
509	672151.6	5414095.025	-0.02	6	N.M.	-1	0.95	5	11	2424	9	N.M.	N.M.	16.16	87	87.45
510	673207.048	5410396.072	-0.02	4	N.M.	1	3.71	16	49	4818	18	N.M.	N.M.	49.115	89	76.38
511	673096.019	5403281.262	0.08	3	-0.9	3	12.83	59	36	30513	46	-0.9	0.7	175.3	94	17.52
512	677955.63	5397301.638	0.06	2	-0.9	1	9.06	39	32	15383	24	-0.9	-0.5	157.9	68	21.76
513	684772.483	5391806.369	0.08	3	-0.9	-1	10.78	51	33	25618	35	-0.9	-0.5	186.79	96	21.87
514	690835.255	5390050.609	-0.02	2	-0.9	2	2.78	11	19	1784	17	-0.9	-0.5	143.76	32	46.1
515	699221.992	5388851.073	0.04	3	-0.9	-1	7.71	34	14	16318	22	-0.9	-0.5	138.27	56	11.6
516	701777.214	5389809.871	0.07	2	-0.9	-1	3.11	15	52	5669	15	1.0	-0.5	228.75	59	62.79
517	701133.302	5389865.075	0.1	3	N.M.	-1	1.64	9	24	1507	11	N.M.	N.M.	37.29	78	80.29
518	706033.769	5391429.712	0.09	3	-0.9	-1	8.16	43	22	18790	26	-0.9	-0.5	232.34	79	23.83
519	705128.429	5390830.343	0.14	2	-0.9	5	10.49	42	23	19832	25	-0.9	-0.5	225.56	68	13.84
520	704282.408	5391194.39	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
521	704141.03	5389726.048	0.18	1	-0.9	-1	10.33	49	25	24823	29	-0.9	-0.5	225.95	71	13.1
522	703453.219	5389034.289	0.21	2	-0.9	1	8.07	44	24	19559	26	-0.9	-0.5	247.66	79	22.12
523	704266.181	5387850.5	0.09	2	-0.9	2	3.88	23	32	10456	13	-0.9	-0.5	247.72	50	40.16
524	704273.226	5386721.929	0.11	4	N.M.	-1	2.33	13	34	2985	9	N.M.	N.M.	165.6	56	60.11
525	705067.309	5387013.482	0.09	2	N.M.	1	3.82	18	28	3833	10	N.M.	N.M.	452.39	89	65.2
526	707177.326	5390759.89	0.14	1	-0.9	-1	2.18	10	24	2175	7	-0.9	-0.5	293.43	69	61.22
527	706204.204	5390530.264	0.09	2	N.M.	2	2.19	14	35	2974	9	N.M.	N.M.	423.05	52	64.49
528	705734.253	5389621.427	-0.02	2	-0.9	-1	1.79	8	16	2274	8	-0.9	-0.5	89.41	34	59.38

Site	Easting	Northing	Ag	As	Au	Au	Co	Cr	Cu	Fe	Ni	Pd	Pt	Total	Zn	LOI
	NAD 27	Method------->	ICP-MS	INAA	FA	INAA	ICP-MS	ICP-OES	ICP-OES	ICP-OES	ICP-OES	FA	FA	REEs	ICP-OES	Grav
	UTM Zone 16	Units-------->	ppm	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppb	ppb	La to Lu	ppm	%
		D. L.--------->	0.02	1	0.9	1	0.05	4	5	5	5	0.9	0.5		2	0.05
529	707506.23	5390191.18	0.03	2	-0.9	-1	1.8	8	17	1721	7	-0.9	-0.5	202.45	41	71.81
530	707255.757	5389445.341	0.04	2	N.M.	-1	1.84	11	22	3241	11	N.M.	N.M.	131.84	48	65.93
531	708137.715	5389343.44	0.08	2	N.M.	-1	1.43	14	23	3510	13	N.M.	N.M.	164.19	43	71.95
532	707213.212	5388609.76	0.1	2	N.M.	-1	3.29	17	50	4010	16	N.M.	N.M.	178.15	79	73.2
533	707920.204	5387817.969	0.12	4	-0.9	2	5.44	22	29	7159	14	-0.9	-0.5	213.77	76	46.38
534	707148.449	5387278.261	0.07	3	N.M.	2	1.92	13	31	2506	14	N.M.	N.M.	245.36	62	64.32
535	710464.028	5392337.355	0.04	-1	N.M.	-1	3.06	17	28	3039	18	N.M.	N.M.	234.22	52	65.92
536	711217.459	5393365.019	0.1	2	N.M.	3	6.84	21	31	4651	24	N.M.	N.M.	252.57	65	68.79
537	710638.803	5394242.88	0.14	3	-0.9	-1	5.07	26	40	8667	12	-0.9	-0.5	499.63	81	47.4
538	709923.401	5394735.688	0.09	3	-0.9	2	4.53	20	32	5578	12	-0.9	-0.5	226.8	66	56.33
539	709236.207	5395007.368	0.1	2	N.M.	1	2.88	16	39	7461	22	N.M.	N.M.	231.51	48	66.16
540	708871.341	5394606.063	0.07	2	N.M.	1	4.06	12	31	3334	12	N.M.	N.M.	186.33	62	80.01
541	708399.943	5393638.254	0.07	3	-0.9	3	3.91	12	34	2776	12	-0.9	-0.5	168.86	52	59.76
542	709382.175	5393053.916	0.04	2	-0.9	-1	2.53	9	27	2136	12	-0.9	-0.5	187.65	38	51.52
543	709891.068	5391373.073	0.11	2	-0.9	-1	4.65	23	26	9544	14	-0.9	-0.5	314.9	54	32.78
544	710506.109	5389639.959	0.06	3	-0.9	-1	3.89	17	23	6111	12	-0.9	0.9	141.37	44	25.27
545	710853.846	5388942.914	0.06	2	-0.9	1	1.78	11	27	1345	12	-0.9	-0.5	227.21	42	59.48
546	711388.983	5387920.818	0.14	2	-0.9	1	7.32	16	29	13756	13	-0.9	-0.5	219.45	67	57.45
547	710737.26	5388310.289	0.1	1	N.M.	2	5.2	17	27	7963	13	N.M.	N.M.	242.47	59	75.49
548	710285.643	5387955.886	0.12	NM	N.M.	NM	5.92	24	27	6882	16	N.M.	N.M.	264.29	62	72.4
549	709096.151	5386646.845	0.13	3	-0.9	-1	6.12	23	33	11819	14	-0.9	0.5	367.95	70	34.34
550	711762.957	5387139.948	0.09	2	-0.9	2	6.43	15	28	3604	16	-0.9	-0.5	253.85	36	42.83
551	704498.736	5383839.126	0.12	2	-0.9	1	9.12	47	18	22650	26	-0.9	0.5	225.52	83	11.58
552	697508.482	5387233.95	0.14	3	-0.9	-1	11.97	58	28	27881	38	-0.9	-0.5	215.75	97	20.77
553	690198.358	5391380.072	0.1	4	-0.9	-1	9.07	31	26	17384	18	-0.9	-0.5	240.88	99	45.76
554	687307.682	5395005.121	0.08	3	-0.9	-1	7.33	31	15	17317	21	-0.9	-0.5	120.54	60	11.76
555	677747.518	5402211.685	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
556	673998.026	5414162.976	0.03	6	N.M.	-1	2.48	15	11	4506	15	N.M.	N.M.	25.56	45	68.85
557	675837.079	5420196.008	0.04	5	N.M.	-1	1.22	7	22	1767	7	N.M.	N.M.	27.35	59	65.9
558	674914.184	5420161.99	0.06	6	N.M.	1	3.02	7	44	4816	11	N.M.	N.M.	55.36	108	84.92
559	666075	5435010	0.09	7	N.M.	3	3.8	17	48	8936	14	N.M.	N.M.	60.3	64	74.48
560	665235.879	5429445.403	-0.02	5	-0.9	-1	1.86	6	15	3090	10	1.2	-0.5	14.15	33	46.77
561	672507.202	5421930.138	0.04	4	N.M.	-1	1.55	6	16	2879	10	N.M.	N.M.	23.73	69	83.25
562	672174.416	5421299.834	0.05	3	N.M.	-1	1.59	8	28	3997	10	N.M.	N.M.	33.6	51	87.46
563	673997.128	5419460.061	-0.02	4	-0.9	1	2.48	10	8	7320	10	1.0	-0.5	26.37	17	6.36
564	680577.227	5406545.269	0.03	4	N.M.	-1	2.1	29	8	4205	15	N.M.	N.M.	27	31	76.11
565	680500.486	5406326.454	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
566	680189.639	5405694.452	0.07	4	N.M.	5	4.53	29	17	7461	18	N.M.	N.M.	56.69	95	60.78
567	681954.914	5405730.617	0.06	3	-0.9	-1	4.7	24	12	11316	16	-0.9	-0.5	63.01	40	35.48
568	684817.625	5405810.796	0.06	2	N.M.	2	2.43	15	13	4974	11	N.M.	N.M.	37.85	85	68.29
569	689973.558	5394964.572	0.05	2	N.M.	-1	6.99	19	23	3108	15	N.M.	N.M.	214.68	56	73.48
570	691270.329	5394754.179	0.08	NM	N.M.	NM	3.51	24	33	6834	17	N.M.	N.M.	190.97	58	61.51
571	692910	5395120	0.09	3	-0.9	2	13.89	51	25	28788	34	-0.9	-0.5	132.62	69	27.46
572	693069.784	5393858.816	0.07	3	N.M.	3	3.71	18	36	4860	18	N.M.	N.M.	116.34	44	63.22
573	692308.884	5392300.479	0.05	3	N.M.	-1	3.21	16	24	3160	18	N.M.	N.M.	215.16	40	73.02
574	692247.784	5390621.942	0.04	1	-0.9	2	7.23	30	11	13940	17	-0.9	-0.5	205.85	38	17.1
575	692854.89	5389370.835	0.05	3	-0.9	-1	3.01	21	34	5307	13	-0.9	-0.5	150.66	29	37.11
576	694097.655	5389533.825	0.08	1	4.0	-1	2.62	15	25	2181	8	-0.9	-0.5	262.95	53	53.41
577	696039.751	5389187.174	0.15	3	-0.9	5	11.19	50	27	25642	34	-0.9	-0.5	213.5	82	35.8
578	701676.503	5385056.778	0.06	3	-0.9	-1	4.9	20	27	11450	18	-0.9	-0.5	74.05	64	46.45
579	701365.573	5383983.343	0.06	3	-0.9	4	12.88	56	31	29096	40	-0.9	0.6	151.75	78	8.33
580	704476.195	5385720.012	0.03	2	-0.9	-1	1.59	6	17	1914	-5	-0.9	-0.5	146.22	63	60.44
581	706000.652	5384982.441	0.13	1	-0.9	3	6.75	35	50	14647	21	1.4	-0.5	372.97	83	27.46
582	707866.841	5385214.777	0.07	2	-0.9	-1	1.61	8	20	2156	6	1.4	-0.5	74.64	68	69.37
583	708959.597	5385159.159	0.05	2	N.M.	-1	1.49	8	18	1248	8	N.M.	N.M.	146.15	52	64.88
584	710940.912	5385146.738	0.16	4	-0.9	4	6.62	29	56	8918	18	1.3	0.6	251.33	126	46.41
585	710171.718	5384332.09	0.04	3	N.M.	1	1.28	7	14	1080	8	N.M.	N.M.	29.6	77	81.86
586	711502.97	5384067.777	0.27	1	1.5	5	5.95	21	43	11106	13	1.6	-0.5	515.64	73	53.88
587	710968.159	5384278.785	0.1	2	1.5	3	5.66	17	29	5444	15	1.1	-0.5	298	44	45.41
588	709475.675	5383744.734	0.1	2	-0.9	1	6.52	25	26	9600	15	-0.9	-0.5	200.29	90	33.03
589	708233.848	5382294.586	0.17	2	1.1	1	5.42	28	41	9355	15	0.9	-0.5	244.96	87	43.41
590	705912.538	5383486.577	0.14	2	N.M.	-1	2.78	8	67	5693	13	N.M.	N.M.	212.88	162	65.9
591	704335.537	5382144.421	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
592	700016.061	5381608.655	0.1	2	-0.9	-1	9.54	46	25	22052	28	-0.9	0.6	236.8	69	17.6
593	699489.905	5380991.415	0.05	2	-0.9	5	5.33	31	14	14590	18	-0.9	0.6	190.9	51	18.99
594	699274.332	5380523.975	0.05	1	-0.9	-1	4.18	22	23	8503	14	-0.9	-0.5	244.89	47	43.06

Site	Easting	Northing	Ag	As	Au	Au	Co	Cr	Cu	Fe	Ni	Pd	Pt	Total	Zn	LOI
	NAD 27	Method------->	ICP-MS	INAA	FA	INAA	ICP-MS	ICP-OES	ICP-OES	ICP-OES	ICP-OES	FA	FA	REEs	ICP-OES	Grav.
	UTM Zone 16	Units------->	ppm	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppb	ppb	La to Lu	ppm	%
		D. L.------->	0.02	1	0.9	1	0.05	4	5	5	5	0.9	0.5		2	0.05
595	698836.656	5379756.215	0.05	2	N.M.	1	1.08	5	20	1114	8	N.M.	N.M.	172.23	46	50.44
596	698483.614	5380330.216	0.08	2	N.M.	-1	2.43	12	37	6461	9	N.M.	N.M.	326.08	71	72.06
597	697932.046	5379794.069	0.05	2	N.M.	-1	1.22	9	25	8408	10	N.M.	N.M.	262.12	52	80.33
598	696657.801	5380120.134	0.05	2	-0.9	2	1.27	7	25	3743	8	1.3	-0.5	180.13	64	57.28
599	697446.878	5380902.962	0.09	2	-0.9	-1	1.78	13	37	4492	9	1.0	-0.5	407.15	47	38.81
600	697738.979	5381969.121	0.09	-1	N.M.	4	2.65	11	28	2117	15	N.M.	N.M.	602.22	48	37.49
601	699190.75	5382889.341	0.12	1	-0.9	-1	1.25	11	6	3144	6	-0.9	-0.5	62.64	30	13.07
602	699141.176	5382322.676	0.08	2	-0.9	5	2.02	7	34	1735	9	-0.9	-0.5	475.72	32	44.39
603	698784.586	5382109.402	0.1	2	-0.9	5	2.14	10	37	1968	12	-0.9	-0.5	326.44	55	53.27
604	699112.885	5384407.836	0.11	2	-0.9	-1	2.01	10	19	6139	7	-0.9	-0.5	130.08	57	49.43
605	693006.672	5386549.784	0.07	2	N.M.	-1	4.19	15	13	3532	13	N.M.	N.M.	121.73	52	69.07
606	690851.037	5387534.213	0.08	2	N.M.	-1	5.96	25	12	8998	16	N.M.	N.M.	166.3	42	38.54
607	691298.64	5392310.095	0.1	1	N.M.	-1	2.17	9	22	6895	9	N.M.	N.M.	108.19	128	78.03
608	684655.396	5395898.186	0.05	2	N.M.	-1	1.44	4	25	1021	9	N.M.	N.M.	47.94	36	66.22
609	674649.637	5411835.459	0.04	2	-0.9	-1	4.23	19	17	9431	15	-0.9	0.6	59.48	50	23.31
610	665172.442	5433654.676	0.04	NM	N.M.	NM	2.3	16	22	4689	13	N.M.	N.M.	26.89	64	70.23
611	666684.446	5435632.571	0.04	2	N.M.	-1	2.7	12	19	5991	9	N.M.	N.M.	39.4	46	56.65
612	671233.411	5422321.768	0.04	3	N.M.	-1	2.79	13	25	7929	12	N.M.	N.M.	55.94	51	65.58
613	673957.215	5421222.854	0.04	4	N.M.	3	2.12	13	18	4580	12	N.M.	N.M.	34.23	71	72.25
614	673975.237	5420548.021	0.05	3	N.M.	-1	3.05	15	20	7306	14	N.M.	N.M.	38.42	77	71.12
615	669738.091	5414519.385	0.03	3	N.M.	1	1.13	5	15	2885	6	N.M.	N.M.	31.28	51	76.49
616	670658.14	5407796.47	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
617	671805.42	5403529.87	0.09	2	N.M.	2	4.32	15	41	1933	31	N.M.	[illegible]	197.09	50	63.04
618	671814.761	5403004.957	0.1	1	-0.9	2	3.32	11	44	1198	26	-0.9	[illegible]	179.14	44	53.45
619	676606.806	5397948.425	0.08	2	-0.9	2	5.69	21	85	7952	18	1.3	[illegible].0	105.8	50	38.47
620	676061.178	5397491.958	0.05	2	-0.9	-1	2.17	14	72	4717	21	1.1	0.6	77.1	34	53.69
621	682357.49	5397883.93	0.06	2	1.3	4	6.28	30	22	14333	23	-0.9	0.7	92.97	55	21.4
622	688793.838	5394708.516	0.15	3	N.M.	-1	5.32	25	33	10689	14	N.M.	N.M.	262.98	73	64.84
623	689009.881	5394555.811	0.14	2	N.M.	1	5.25	24	32	10298	13	N.M.	N.M.	259.86	70	57.79
624	689687.18	5394312.035	0.05	2	N.M.	2	4.28	11	16	2394	11	N.M.	N.M.	102.28	56	68.23
625	689737.639	5393202.719	0.04	2	-0.9	2	2.74	8	9	3358	8	-0.9	-0.5	157.72	39	53.63
626	689322.124	5391758.213	0.05	2	N.M.	-1	2.3	7	11	1923	9	N.M.	N.M.	108.48	37	59.75
627	688592.707	5392010.379	0.06	NM	N.M.	NM	2.43	15	12	3667	8	N.M.	N.M.	177.37	53	82.37
628	687840.05	5391416.277	0.12	5	N.M.	1	2	11	12	9615	9	N.M.	N.M.	121.71	62	68.56
629	688271.203	5390918.85	0.08	2	-0.9	1	4.77	10	18	2935	11	-0.9	-0.5	120.62	47	68.64
630	688531.076	5390780.051	0.08	1	N.M.	-1	2.91	8	14	1499	10	N.M.	N.M.	158.77	46	65.47
631	689359.3	5391147.133	0.08	2	1.3	3	3.97	12	19	2123	15	-0.9	-0.5	309.53	46	68.45
632	688710.361	5390291.663	0.14	3	N.M.	-1	5.87	29	22	10335	15	N.M.	N.M.	344.14	66	41.92
633	688461.599	5389484.274	0.14	4	-0.9	2	10.86	29	21	25904	15	-0.9	0.5	384.1	88	38.68
634	688843.694	5389032.988	0.09	2	-0.9	3	3.16	15	13	5877	11	-0.9	-0.5	255.99	23	39.94
635	690529.194	5389896.54	0.05	2	-0.9	-1	3.76	13	19	2399	15	-0.9	-0.5	230.74	36	47.73
636	690919.224	5389703.634	0.06	2	N.M.	2	2.08	12	23	1687	10	N.M.	N.M.	152.88	43	72.36
637	692147.781	5389883.17	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
638	691820.144	5388697.698	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
639	691123.425	5388520.766	-0.02	1	-0.9	1	2.24	16	6	4810	9	-0.9	-0.5	100.18	29	16.31
640	690941.817	5389707.364	0.05	2	N.M.	2	1.49	10	17	1469	10	N.M.	N.M.	132.69	40	68
641	691809.228	5388696.198	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
642	693405.591	5388474.604	0.14	3	-0.9	2	4.61	18	37	3679	17	-0.9	-0.5	355.77	48	60.99
643	694185.947	5387912.342	0.08	1	-0.9	2	3.67	12	23	2279	15	-0.9	-0.5	185.14	42	55.13
644	695581.121	5385560.174	0.12	3	-0.9	1	10.14	48	25	23639	32	-0.9	-0.5	209.74	84	21.63
645	694720.233	5384607.696	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
646	696181.138	5383323.828	0.09	2	-0.9	2	7.66	33	27	15892	25	-0.9	-0.5	189.38	65	26.71
647	695291.461	5383251.138	0.04	1	-0.9	1	0.96	-8	18	838	8	-0.9	-0.5	196.69	31	52.32
648	694644.856	5382797.959	0.1	2	N.M.	1	5.66	19	34	6599	13	N.M.	N.M.	354.28	80	49.56
649	694154.728	5382206.666	0.08	2	N.M.	2	6.08	15	24	7707	12	N.M.	N.M.	259.91	71	61.38
650	694424.079	5381931.629	0.09	2	-0.9	-1	2.2	12	16	2068	14	-0.9	-0.5	169.17	31	59.26
651	692808.239	5381402.553	0.07	3	N.M.	-1	2.48	21	14	4186	13	N.M.	N.M.	61.44	62	70.76
652	692746.439	5380839.029	0.06	3	-0.9	1	4.27	25	18	9477	14	-0.9	-0.5	226.17	47	33.77
653	692277.531	5380070.78	0.08	4	-0.9	2	4.97	27	27	9889	15	-0.9	-0.5	218.5	54	31.46
654	692505.794	5379444.693	0.06	2	-0.9	1	5.71	14	18	8240	11	-0.9	-0.5	233.71	56	54.7
655	691501.561	5379694.893	0.07	2	-0.9	-1	4.66	25	23	9533	14	-0.9	-0.5	163.53	43	25.48
656	691113.306	5378734.292	0.14	6	N.M.	-1	7.64	38	95	13546	23	N.M.	N.M.	161.13	63	43.32
657	690755.76	5378469.984	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
658	690003.758	5378607.286	0.03	3	N.M.	1	3.83	16	26	4488	11	N.M.	N.M.	94.05	64	72.34
659	679326.525	5391584.157	0.12	3	-0.9	3	13.02	22	68	11357	17	-0.9	-0.5	166.09	107	61.14
660	678997.322	5391993.385	0.03	2	-0.9	1	6.25	15	46	4328	15	-0.9	-0.5	137.1	54	60.2

Site	Easting	Northing	Ag	As	Au	Au	Co	Cr	Cu	Fe	Ni	Pd	Pt	Total	Zn	LOI
	NAD 27	Method----->	ICP-MS	INAA	FA	INAA	ICP-MS	ICP-OES	ICP-OES	ICP-OES	ICP-OES	FA	FA	REEs	ICP-OES	Grav
	UTM Zone 16	Units----->	ppm	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppb	ppb	La to Lu	ppm	%
		D. L.----->	0.02	1	0.9	1	0.05	4	5	5	5	0.9	0.5		2	0.05
661	678285.2	5392171.008	0.04	2	-0.9	-1	5.7	17	56	3520	22	-0.9	-0.5	151.6	45	45.45
662	678108.393	5400554.67	0.04	2	-0.9	-1	6.7	20	75	6459	25	1.3	0.8	100.85	45	53.8
663	672664.203	5411698.19	-0.02	2	N.M.	-1	1.55	-4	10	1274	7	N.M.	N.M.	5.615	36	92.18
664	670541.284	5419765.168	-0.02	2	-0.9	-1	1.02	5	10	2557	6	-0.9	-0.5	9.86	25	21.11
665	672303.459	5427500.838	-0.02	3	-0.9	-1	2.67	12	16	5807	9	-0.9	-0.5	40.29	35	54.44
666	663307.768	5436993.077	-0.02	4	N.M.	-1	1.48	7	32	2092	10	N.M.	N.M.	46.5	54	78.56
667	668586.674	5434613.531	-0.02	2	N.M.	-1	2.54	12	19	4815	9	N.M.	N.M.	42.26	66	59.87
668	673319.758	5419038.855	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
669	672515.016	5418305.953	-0.02	2	-0.9	-1	4.95	21	24	12262	17	-0.9	-0.5	77.19	82	34.27
670	673733.528	5418359.539	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
671	669233.738	5408676.884	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
672	669547.685	5404882.182	0.14	2	N.M.	2	3.74	10	250	6036	32	N.M.	N.M.	171.08	52	72.59
673	670398.208	5404010.205	0.04	3	1.0	4	2.57	11	68	4579	20	1.9	0.7	92.77	44	51.33
674	669988.294	5403591.734	0.06	2	-0.9	1	7.99	33	37	15094	23	-0.9	0.6	130.23	87	29.55
675	678569.691	5401335.991	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
676	677281.648	5398750.985	0.03	2	N.M.	-1	6.89	14	82	4844	15	N.M.	N.M.	70.2	57	75.27
677	677328.17	5397643.601	0.06	2	-0.9	2	8.18	16	89	2645	13	0.9	0.6	173.11	50	66.42
678	680619.573	5398706.517	-0.02	3	N.M.	-1	3.13	10	59	2273	19	N.M.	N.M.	75.25	64	72.72
679	679829.524	5397629.642	0.05	1	-0.9	1	7.37	32	30	14788	19	-0.9	-0.5	114.7	67	22.57
680	681794.593	5395441.843	0.1	3	-0.9	-1	13.88	NM	NM	NM	NM	-0.9	-0.5	131.14	NM	24.1
681	683763.078	5393833.308	0.12	2	N.M.	1	4.55	10	79	3972	12	N.M.	N.M.	260.64	69	58.46
682	688300.826	5392499.238	-0.02	3	N.M.	2	1.91	5	8	1927	8	N.M.	N.M.	39.74	35	75.15
683	687512.557	5392436.582	-0.02	2	N.M.	3	2.73	10	20	1605	11	N.M.	N.M.	232.9	29	52.14
684	687248.197	5391739.687	0.09	1	N.M.	2	4.9	9	17	1451	12	N.M.	N.M.	143.76	40	61.12
685	686441.731	5392023.947	0.07	2	-0.9	1	2.94	10	14	2045	8	-0.9	-0.5	238.92	42	59.18
686	686475.094	5391341.475	0.2	3	-0.9	-1	4.19	20	23	10954	11	-0.9	-0.5	408.05	78	55.25
687	686249.491	5390358.556	0.06	1	-0.9	-1	4.88	18	18	2822	14	2.0	0.8	177.23	41	49.5
688	685887.454	5389872.891	0.07	2	-0.9	-1	6.71	13	18	4702	10	-0.9	-0.5	115.73	54	62.31
689	685654.833	5389586.483	0.02	2	-0.9	-1	7.3	13	22	11669	14	-0.9	-0.5	141.34	57	56.51
690	686187.637	5389008.399	0.04	1	N.M.	-1	5.34	23	22	7463	12	N.M.	N.M.	201.71	40	54.26
691	687613.438	5389515.62	-0.02	2	-0.9	2	3.24	11	17	2089	12	-0.9	-0.5	188.71	45	51.76
692	687374.43	5389074.584	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
693	687882.688	5389130.896	0.05	5	-0.9	1	4.41	27	18	14340	15	-0.9	-0.5	225.05	59	38.98
694	687266.233	5388264.729	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
695	690977.699	5388216.691	-0.02	3	-0.9	-1	2.1	19	20	3389	12	-0.9	-0.5	39.29	57	46.81
696	690507.748	5387671.472	-0.02	1	-0.9	-1	2.2	20	8	5250	11	-0.9	-0.5	45.04	42	19.47
697	691152.047	5387657.957	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
698	693344.666	5387424.646	-0.02	2	N.M.	-1	4.02	17	16	3885	16	N.M.	N.M.	244.32	30	57.09
699	692541.082	5387346.375	0.07	1	N.M.	1	1.83	15	18	1238	19	N.M.	N.M.	135.88	33	70.22
700	692894.106	5386120.663	0.03	2	-0.9	-1	4.16	20	17	5896	14	-0.9	-0.5	173.97	42	60.84
701	692761.473	5385176.201	-0.02	2	-0.9	-1	3.27	13	15	1667	21	-0.9	-0.5	271.1	29	53.25
702	692614.625	5384757.363	0.02	1	0.9	-1	4.2	17	21	2478	22	2.0	-0.5	224.33	50	60.22
703	692948.647	5384952.881	0.06	3	-0.9	-1	3.75	16	19	5218	16	-0.9	-0.5	177.02	51	63.61
704	692075.383	5386032.98	0.06	2	-0.9	1	5.1	23	17	7067	18	-0.9	-0.5	268.57	40	58.42
705	691637.224	5385298.212	-0.02	1	-0.9	-1	6.05	22	22	4281	29	-0.9	-0.5	319.85	62	50.6
706	692631.857	5383806.953	0.05	2	2.6	-1	3.07	14	21	7774	15	-0.9	-0.5	191.54	60	61.33
707	692261.155	5382748.892	0.04	2	3.1	2	4.21	17	24	3985	19	-0.9	-0.5	319.38	40	36.95
708	691520.175	5382325.218	0.09	2	-0.9	-1	3.37	14	40	3957	22	-0.9	-0.5	154.88	35	35.64
709	690775.271	5382551.008	0.1	2	N.M.	-1	6.69	20	25	2324	26	N.M.	N.M.	247.64	44	67.18
710	690098.277	5383398.636	0.06	2	-0.9	1	4.4	15	25	3044	21	-0.9	-0.5	158.73	44	57.08
711	689565.23	5388103.647	0.05	2	N.M.	1	2.56	14	25	2520	9	N.M.	N.M.	161.14	52	56.76
712	683434.027	5392287.228	0.08	1	-0.9	3	3.84	9	94	1976	15	-0.9	-0.5	282.91	54	45.85
713	683731.167	5393870.932	0.16	1	-0.9	1	3.14	10	86	3982	13	-0.9	-0.5	273.07	67	57.34
714	677651.391	5394384.474	0.02	-1	-0.9	-1	3.14	13	27	5810	10	-0.9	-0.5	124.87	28	19.73
715	677923.53	5395416.978	0.05	1	-0.9	6	3.91	19	40	4734	12	-0.9	-0.5	143.63	29	22.35
716	672401.006	5403996.335	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
717	672447.783	5404504.758	-0.02	4	N.M.	-1	3	15	27	5350	37	N.M.	N.M.	26.98	76	75.63
718	671424.079	5412728.534	0.04	3	-0.9	-1	2.46	12	-5	7600	6	-0.9	-0.5	40.05	35	25
719	666992.087	5423368.048	NM	2	N.M.	-1	NM	5	6	1935	6	N.M.	N.M.	NM	34	34.38
720	663766.319	5432330.453	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
721	668887.737	5434216.205	-0.02	NM	-0.9	NM	1.95	19	12	4002	12	1.0	0.6	34.92	52	62.99
722	669310.792	5434088.369	-0.02	4	-0.9	-1	1.05	6	-5	30158	6	-0.9	0.6	3.085	15	16.94
723	673237.941	5432756.617	-0.02	4	-0.9	-1	3.86	20	10	9867	14	-0.9	0.5	58.1	30	29.04
724	674623.827	5421314.443	0.03	7	N.M.	-1	2.19	11	44	3407	17	N.M.	N.M.	108.73	53	61.9
725	673797.911	5417666.168	-0.02	4	N.M.	2	1.1	7	13	1698	10	N.M.	N.M.	17.38	89	85.9
726	672581.683	5417330.865	-0.02	3	N.M.	-1	1.4	8	14	3787	10	N.M.	N.M.	15.6	86	82.31

F2

Site	Easting	Northing	Ag	As	Au	A u	Co	Cr	Cu	Fe	Ni	Pd	Pt	Total	Zn	LOI
	NAD 27	Method——>	ICP-MS	INAA	FA	INAA	ICP-MS	ICP-OES	ICP-OES	ICP-OES	ICP-OES	FA	FA	REEs	ICP-OES	Grav.
	UTM Zone 16	Units——>	ppm	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppb	ppb	La to Lu	ppm	%
		D. L.——>	0.02	1	0.9	1	0.05	4	5	5	5	0.9	0.5		2	0.05
727	672067.331	5416678.95	-0.02	NM	N.M.	NM	1.08	5	7	4110	-5	N.M.	N.M.	9.425	93	90.64
728	672179.201	5416238.571	-0.02	5	N.M.	-1	1.42	4	8	7353	-5	N.M.	N.M.	10.215	82	90.75
729	672323.223	5415382.352	-0.02	7	N.M.	-1	1.52	5	6	3328	7	N.M.	N.M.	9.845	44	89.66
730	671784.635	5402986.065	0.06	2	-0.9	2	2.69	10	42	1311	26	-0.9	-0.5	203.47	40	53.19
731	671351.842	5402553.862	0.04	2	-0.9	4	3.24	11	27	2319	18	-0.9	-0.5	73.67	51	63.64
732	672376.591	5401655.098	-0.02	2	N.M.	-1	1.84	6	28	1396	16	N.M.	N.M.	21.25	60	87.59
733	672244.802	5401801.386	0.03	NM	N.M.	NM	3.03	8	40	1920	21	N.M.	N.M.	22.58	79	83.93
734	678707.145	5396855.811	0.03	2	N.M.	4	3.67	25	36	12285	26	N.M.	N.M.	101.09	40	40.52
735	678590.271	5395608.629	0.22	1	N.M.	-1	6.46	13	170	7015	18	N.M.	N.M.	148.16	76	58.18
736	679449.296	5395634.185	0.07	1	-0.9	1	7.2	34	29	18299	23	0.9	-0.5	168.5	57	18.44
737	681450	5393370	0.06	3	-0.9	3	8.36	40	34	20537	30	-0.9	-0.5	121.4	62	28.68
738	679964.309	5393179.847	0.12	2	-0.9	1	7.6	21	52	9595	15	1.4	-0.5	241.54	47	42.33
739	680393.033	5392308.243	0.06	3	-0.9	2	6.14	20	49	8970	19	-0.9	-0.5	110.75	66	47.66
740	683486.979	5389368.932	0.05	3	-0.9	-1	7.95	34	19	19404	23	-0.9	-0.5	132.08	55	9.79
741	685458.536	5388460.304	0.05	2	-0.9	-1	4.25	21	16	6758	11	-0.9	-0.5	135.43	45	49.46
742	685669.343	5387313.462	0.04	2	N.M.	3	2.59	14	23	3180	15	N.M.	N.M.	167.59	45	70.28
743	685283.735	5386142.94	0.03	4	N.M.	1	2.09	19	23	4508	13	N.M.	N.M.	146.48	43	75.32
744	684451.142	5384810.635	0.03	1	-0.9	-1	1.74	13	25	1410	15	-0.9	-0.5	178.72	39	51.78
745	686104.787	5386222.045	0.03	2	N.M.	-1	3.12	19	15	2847	15	N.M.	N.M.	137.14	49	68.83
746	686640.373	5387033.192	-0.02	2	-0.9	4	4.04	17	18	4372	18	-0.9	-0.5	191.83	37	59.86
747	688690.681	5387380.018	0.07	2	N.M.	-1	4.02	14	23	2357	11	N.M.	N.M.	246.18	62	69.18
748	688553.746	5386638.766	0.02	1	-0.9	2	3.01	17	21	2426	19	-0.9	-0.5	296.02	29	50.13
749	688175.904	5386977.986	-0.02	1	-0.9	3	1.65	16	21	4637	17	-0.9	-0.5	207.66	39	59.4
750	688122.411	5385901.328	0.07	2	-0.9	-1	4.69	23	19	5043	18	-0.9	-0.5	256.67	70	42.32
751	687865.81	5386227.739	0.06	3	-0.9	4	3.75	20	51	12881	25	-0.9	-0.5	546	41	46.92
752	687163.528	5386170.671	-0.02	4	-0.9	5	3.06	19	35	4660	17	1.1	-0.5	130.28	40	48.87
753	686483.065	5385539.725	0.06	4	N.M.	5	6.44	21	37	8087	21	N.M.	N.M.	183.49	59	60.06
754	687859.606	5385063.258	0.07	2	-0.9	2	2.93	23	69	5308	24	-0.9	-0.5	485.32	45	33.63
755	687642.072	5385034.796	-0.02	1	-0.9	2	2.19	14	45	3932	11	-0.9	-0.5	86.6	18	13.6
756	689417.337	5385425.438	0.04	2	N.M.	3	3.72	15	22	2150	19	N.M.	N.M.	187.04	48	67.32
757	690118.206	5387255.267	0.03	3	-0.9	1	7.77	24	18	16904	22	-0.9	-0.5	247.79	58	60.92
758	689793.26	5387130.185	0.18	2	-0.9	-1	3.28	20	25	7251	16	1.1	0.6	288.71	72	54.59
759	689975.444	5386176.26	0.11	3	-0.9	-1	4.61	21	18	9704	14	-0.9	0.5	268.57	49	60.64
760	689756.155	5385618.621	0.08	3	N.M.	3	4.92	21	21	9801	14	N.M.	N.M.	286.76	70	63.93
761	690492.427	5385278.277	0.11	3	-0.9	-1	4.27	25	27	12201	19	-0.9	-0.5	178.67	65	64.66
762	690190.924	5385450.944	-0.02	2	-0.9	-1	3.79	14	10	3788	19	-0.9	-0.5	155.22	41	47.49
763	690208.614	5384250.393	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
764	689863.965	5384367.313	0.06	1	-0.9	3	5.5	20	13	5285	20	-0.9	-0.5	192.9	36	38.24
765	689460.937	5383852.586	0.1	2	-0.9	3	3.37	18	14	5745	15	-0.9	-0.5	164.62	30	54.7
766	683329.413	5387742.35	0.08	1	-0.9	-1	1.27	13	14	1349	9	-0.9	-0.5	336.39	12	64.07
767	682701.009	5387132.448	0.09	2	-0.9	-1	3.12	10	25	2004	12	-0.9	-0.5	290.89	17	49.72
768	677916.615	5393015.944	0.16	2	-0.9	-1	4.02	15	60	2888	19	-0.9	0.7	93.44	77	69.05
769	676150.671	5394285.944	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
770	676711.487	5395814.008	0.2	3	-0.9	-1	10.31	40	67	11699	22	-0.9	-0.5	236.85	89	42.55
771	681583.796	5402775.774	0.04	2	-0.9	-1	2.19	14	6	4161	8	-0.9	-0.5	23.03	64	29.49
772	676898.673	5414195.02	0.05	2	N.M.	-1	1.02	6	9	1176	5	N.M.	N.M.	17.91	19	89.67
773	678021.07	5416515.226	-0.02	2	N.M.	3	1.18	5	7	30061	5	N.M.	N.M.	6.615	33	56.63
774	664440.185	5429173.604	0.05	5	N.M.	-1	2.98	14	16	4864	13	N.M.	N.M.	30.77	46	73.05
775	662579.401	5434500.305	0.08	4	-0.9	-1	5.11	27	25	18720	16	-0.9	-0.5	93.93	71	40.08
776	662646.459	5430966.261	-0.02	2	-0.9	-1	1.37	7	-5	4029	-5	-0.9	-0.5	30.74	16	15.03
777	664086.389	5428596.411	0.02	4	-0.9	2	2.29	10	9	14018	8	-0.9	-0.5	21.7	31	24.43
778	666152.542	5422720.631	-0.02	1	-0.9	-1	0.53	4	-5	1820	-5	-0.9	-0.5	2.285	14	17.02
779	669256.414	5418686.475	0.05	8	N.M.	1	3.04	17	28	11433	17	N.M.	N.M.	54.06	76	63.09
780	668875.211	5418080.063	0.04	4	N.M.	-1	1.36	8	13	2126	7	N.M.	N.M.	23.61	88	84.04
781	669368.213	5412857.354	0.03	-1	-0.9	-1	2.17	14	5	6073	7	-0.9	-0.5	43.97	18	24.61
782	669041.093	5412310.193	0.03	-1	-0.9	-1	2.89	13	-5	7628	7	-0.9	-0.5	48.26	27	12.59
783	668270.199	5407540.012	0.1	5	-0.9	6	10.15	41	19	23156	27	-0.9	-0.5	109.39	98	20.25
784	667464.629	5403393.51	0.11	8	N.M.	-1	8.08	30	37	22523	21	N.M.	N.M.	96.27	90	55.33
785	670325.328	5398932.67	0.07	4	N.M.	-1	5.32	26	30	12086	32	N.M.	N.M.	66.66	74	64.35
786	675521.147	5398551.766	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
787	675258.501	5396882.636	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
788	674980.327	5396337.08	0.06	3	-0.9	-1	6.09	38	32	8992	25	-0.9	-0.5	73.63	49	36.12
789	676721.839	5394018.174	0.08	1	N.M.	-1	4.99	13	44	2343	17	N.M.	N.M.	93.6	36	69.23
790	680383.596	5389299.541	0.08	2	-0.9	-1	5.33	22	15	11322	15	-0.9	-0.5	89.8	37	9.52
791	680705.053	5387797.768	0.1	2	-0.9	4	8.2	33	20	18738	22	-0.9	-0.5	129.3	53	9.84
792	683210.791	5386830.986	0.18	3	N.M.	-1	15.3	22	24	17926	12	N.M.	N.M.	243.32	79	60.64

Site	Easting	Northing	Ag	As	Au	Au	Co	Cr	Cu	Fe	Ni	Pd	Pt	Total	Zn	LOI
	NAD 27	Method----->	ICP-MS	INAA	FA	INAA	ICP-MS	ICP-OES	ICP-OES	ICP-OES	ICP-OES	FA	FA	REEs	ICP-OES	Grav
	UTM Zone 16	Units----->	ppm	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppb	ppb	La to Lu	ppm	%
		D. L.----->	0.02	1	0.9	1	0.05	4	5	5	5	0.9	0.5		2	0.05
793	684472.489	5384804.037	0.06	2	-0.9	1	2.25	12	26	1780	15	-0.9	-0.5	164.25	42	52.82
794	686814.793	5383796.468	0.06	2	-0.9	-1	4.6	15	15	3304	17	-0.9	-0.5	186.15	32	56.94
795	688137.175	5383392.256	0.06	2	N.M.	2	1.65	12	20	1827	12	N.M.	N.M.	113.7	41	63.38
796	688694.004	5383025.953	0.07	2	-0.9	1	5.24	22	20	4520	22	-0.9	-0.5	245.2	45	50.72
797	688296.066	5382077.955	0.07	1	-0.9	1	6.07	17	16	5920	16	-0.9	-0.5	193.05	54	37.85
798	688466.474	5381736.862	0.06	1	-0.9	2	5.74	18	14	4632	20	-0.9	-0.5	177.02	35	48.17
799	689249.389	5380401.726	0.12	2	N.M.	-1	4.19	19	28	6311	20	N.M.	N.M.	221.98	39	62.16
800	690255.977	5379961.004	0.07	3	-0.9	1	2.39	12	27	1895	20	-0.9	-0.5	123.33	42	50.37
801	690206.921	5379141.011	0.04	2	N.M.	-1	1.82	10	18	2063	17	N.M.	N.M.	107.76	38	50.89
802	689408.177	5378974.478	0.04	1	N.M.	-1	1.81	8	20	1275	21	N.M.	N.M.	80.63	45	69.09
803	686520.203	5380634.782	0.04	2	-0.9	1	4.03	11	9	4341	9	-0.9	-0.5	85.42	29	17.47
804	686515.327	5381646.534	0.08	2	N.M.	-1	3.77	17	13	1756	17	N.M.	N.M.	224.64	43	62.42
805	686495.355	5381946.921	0.05	1	-0.9	3	3.1	13	9	2495	14	-0.9	-0.5	264.68	39	56.03
806	687367.337	5382501.048	0.09	2	N.M.	-1	3.7	17	20	2106	18	N.M.	N.M.	269.76	45	56.9
807	686341.955	5382946.482	0.09	2	N.M.	-1	6.92	21	14	5214	17	N.M.	N.M.	188.67	45	63.84
808	685929.208	5382113.518	0.08	-1	-0.9	-1	3.96	18	19	2186	20	-0.9	-0.5	300.25	27	53.61
809	685741.629	5383399.424	0.06	1	-0.9	-1	3.46	18	10	4207	13	-0.9	-0.5	200.83	28	31.73
810	685232.792	5383641.788	0.09	2	-0.9	3	8.84	27	19	11665	18	-0.9	0.9	348.74	64	45.51
811	684546.591	5384043.044	0.05	2	1.5	-1	2.5	11	35	3740	14	2.6	-0.5	92.26	30	21.37
812	683498.46	5384311.459	0.05	2	-0.9	-1	2.07	14	13	3026	10	-0.9	-0.5	60.08	59	39.1
813	684072.901	5383977.215	0.11	3	-0.9	4	2.45	18	51	4348	18	-0.9	-0.5	155.42	42	45.56
814	683948.835	5383291.368	0.17	2	-0.9	-1	5.56	19	24	8515	12	-0.9	-0.5	156.66	69	63.39
815	678526.718	5390306.927	0.14	1	-0.9	2	2.26	10	39	2938	15	-0.9	-0.5	129.64	55	54.44
816	677905.73	5388905.605	0.06	2	-0.9	2	1.98	9	33	1669	20	-0.9	-0.5	46.16	46	60.11
817	678109.113	5391298.144	0.13	2	-0.9	-1	4.72	22	61	3023	24	-0.9	0.5	135.23	55	51.26
818	676977.917	5391893.956	0.1	1	-0.9	-1	2.51	11	32	1660	17	-0.9	-0.5	101.1	33	49.98
819	677563.3	5393475.809	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
820	669688.56	5397159.306	0.05	2	N.M.	2	2.26	5	52	1450	14	N.M.	N.M.	16.69	55	77.21
821	669441.875	5397551.329	0.08	1	-0.9	-1	4.29	11	97	5878	12	-0.9	-0.5	63.8	38	26.27
822	668381.013	5399400.842	0.13	4	N.M.	3	7.68	33	43	16222	30	N.M.	N.M.	77.83	73	50.36
823	669080.957	5401355.783	0.04	2	N.M.	-1	1.39	4	18	1959	-5	N.M.	N.M.	20.05	73	85.04
824	668272.026	5405948.046	0.14	4	-0.9	-1	10.35	41	25	23475	28	-0.9	-0.5	106.46	101	23.37
825	667422.662	5406713.099	0.2	2	-0.9	-1	3.74	28	161	7351	15	4.0	0.9	92.96	52	53.47
826	668118.924	5411007.214	0.04	2	-0.9	-1	3.2	19	8	7328	11	-0.9	-0.5	49.1	38	26.38
827	667548.705	5409961.04	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
828	668123.448	5417101.029	0.09	2	N.M.	-1	1.39	7	59	959	7	N.M.	N.M.	69.93	46	64.17
829	668100.46	5420887.132	0.05	3	-0.9	-1	2.03	10	16	7080	8	-0.9	-0.5	33.79	45	66.09
830	667650.951	5420786.137	0.05	3	N.M.	2	1.73	8	25	3700	11	N.M.	N.M.	27.71	58	68.55
831	662866.404	5428259.217	0.03	4	-0.9	-1	2.24	14	9	42100	12	-0.9	-0.5	26.15	32	20.62
832	662540.856	5424227.776	0.04	3	-0.9	1	3.46	17	9	12212	12	-0.9	-0.5	44.22	43	34.03
833	662587.705	5419551.973	0.06	2	N.M.	-1	1.39	6	19	2109	6	N.M.	N.M.	21.91	58	82.96
834	667606.456	5419719.302	0.04	3	N.M.	2	2.55	12	10	6870	10	N.M.	N.M.	34.91	69	55.47
835	668062.542	5419096.037	0.02	4	N.M.	-1	2.16	12	12	5952	12	N.M.	N.M.	22.32	83	72.68
836	669503.855	5415990.023	-0.02	2	N.M.	-1	2.8	17	17	4193	12	N.M.	N.M.	44.62	70	56.63
837	669146.936	5416049.257	-0.02	2	N.M.	-1	1.84	6	22	1616	10	N.M.	N.M.	38.17	43	82.24
838	667592.775	5416519.813	-0.02	2	N.M.	-1	2.08	8	24	2182	9	N.M.	N.M.	87.15	55	64.43
839	666849.951	5416605.832	0.04	-1	N.M.	1	1.49	9	29	1697	6	N.M.	N.M.	173.24	53	68.59
840	666407.033	5416694.523	-0.02	3	N.M.	-1	1.55	7	23	1733	5	N.M.	N.M.	51.28	58	76.56
841	666023.789	5416323.882	-0.02	3	N.M.	1	1.99	6	22	1124	9	N.M.	N.M.	22.08	58	89.74
842	666336.096	5415509.392	0.03	2	N.M.	1	2.58	10	22	4517	6	N.M.	N.M.	90.57	60	71.77
843	665688.562	5415214.657	-0.02	2	N.M.	2	1.19	7	19	1597	8	N.M.	N.M.	68.77	46	68.83
844	668151.481	5414969.76	-0.02	-2	N.M.	-1	3.92	8	29	2422	10	N.M.	N.M.	25.88	89	91.04
845	666857.361	5414118.464	-0.02	-2	N.M.	-1	1.77	8	24	2525	8	N.M.	N.M.	65.75	66	69.75
846	665601.847	5414191.629	-0.02	-2	N.M.	-1	2	8	19	1867	8	N.M.	N.M.	48.68	45	74.4
847	665290.963	5412436.008	0.32	56	N.M.	4	25.98	33	356	24045	31	N.M.	N.M.	976.8	64	64.74
848	666557.024	5409316.652	-0.02	4	N.M.	3	1.27	7	36	2468	8	N.M.	N.M.	38.52	60	74.23
849	664998.126	5406308.365	-0.02	3	N.M.	-1	1.73	7	22	1496	7	N.M.	N.M.	25.79	50	86.94
850	665876.938	5405041.241	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
851	666230.894	5401016.994	0.04	3	-0.9	-1	9.72	38	23	24680	25	-0.9	-0.5	100.75	75	15.78
852	673762.822	5394543.209	-0.02	-1	-0.9	1	5.23	11	35	2762	13	1.0	-0.5	117	50	52.93
853	673839.251	5395628.669	-0.02	1	-0.9	-1	4.86	12	40	3364	17	-0.9	0.6	73.82	47	46.46
854	673501.694	5395998.661	0.1	2	-0.9	1	7.24	25	43	7805	17	1.3	0.6	139.09	59	39.12
855	672519.536	5395580.826	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
856	676375.478	5393345.128	0.12	3	N.M.	2	7.97	18	69	3655	23	N.M.	N.M.	166.09	96	73.6
857	674685.396	5393524.538	0.04	2	-0.9	-1	5.05	19	20	5790	10	-0.9	-0.5	110.44	36	37.67
858	675721.208	5392813.304	0.09	-1	-0.9	1	3.77	17	90	2249	24	-0.9	-0.5	460	48	53.38

Site	Easting	Northing	Ag	As	Au	Au	Co	Cr	Cu	Fe	Ni	Pd	Pt	Total	Zn	LOI
	NAD 27	Method---->	ICP-MS	INAA	FA	INAA	ICP-MS	ICP-OES	ICP-OES	ICP-OES	ICP-OES	FA	FA	REEs	ICP-OES	Grav.
	UTM Zone 16	Units---->	ppm	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppb	ppb	La to Lu	ppm	%
		D. L.---->	0.02	1	0.9	1	0.05	4	5	5	5	0.9	0.5		2	0.05
859	675074.733	5392076.241	0.14	3	N.M.	-1	8.43	30	53	2719	34	N.M.	N.M.	268.78	59	66.69
860	674811.022	5391652.149	0.06	-1	N.M.	-1	6.31	25	38	2545	28	N.M.	N.M.	276.37	48	60.1
861	675256.739	5391016.627	0.08	-1	-0.9	1	5.35	23	51	2442	20	-0.9	-0.5	155.79	56	50.2
862	676078.73	5390154.558	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
863	676656.044	5389835.506	-0.02	2	N.M.	-1	1.33	8	25	1328	10	N.M.	N.M.	38.23	50	67.5
864	677102.345	5389647.269	-0.02	NM	N.M.	NM	1.24	14	24	1886	12	N.M.	N.M.	54.37	43	64.1
865	677072.216	5388110.264	-0.02	2	N.M.	-1	2.06	11	32	2684	19	N.M.	N.M.	102.49	48	59.96
866	677670.023	5386243.713	-0.02	-1	-0.9	-1	1.74	14	5	5179	7	-0.9	-0.5	42.03	20	10.08
867	682838.883	5385953.505	-0.02	2	N.M.	-1	2.49	13	18	2235	9	N.M.	N.M.	98.4	59	70.78
868	682308.063	5385174.954	-0.02	5	N.M.	-1	2.32	8	8	7084	-5	N.M.	N.M.	19.08	37	85.93
869	683022.715	5384312.815	0.02	NM	N.M.	NM	2.15	23	80	2880	17	N.M.	N.M.	31.5	69	75.44
870	683036.836	5382352.604	0.04	NM	N.M.	NM	3.04	30	23	5222	20	N.M.	N.M.	54.49	57	62.71
871	683889.966	5381239.079	0.02	2	1.2	3	5.19	21	15	6136	14	-0.9	-0.5	259.6	46	37.21
872	681794.401	5380916.899	0.03	2	-0.9	2	5.54	29	17	13032	17	-0.9	-0.5	136.1	46	15.6
873	676024.684	5386898.001	-0.02	2	N.M.	-1	1.14	7	20	1561	12	N.M.	N.M.	38.64	58	73.07
874	675009.14	5386957.189	0.02	3	N.M.	-1	2.76	15	42	4959	19	N.M.	N.M.	83.53	72	65.44
875	674731.754	5386520.072	0.02	3	-0.9	-1	1.99	11	30	3399	11	1.0	0.6	98.34	34	75.46
876	674927.922	5388732.911	0.03	2	N.M.	-1	2.51	15	32	4267	13	N.M.	N.M.	81.04	69	64.11
877	674367.09	5389498.88	0.1	3	N.M.	2	7.01	26	40	5822	20	N.M.	N.M.	212.31	57	65.85
878	674377.241	5390467.062	0.03	1	N.M.	-1	5.74	21	43	3372	20	N.M.	N.M.	158.54	60	80.5
879	672969.047	5391228.255	0.07	NM	N.M.	NM	5.54	46	30	7986	23	N.M.	N.M.	185.31	46	44.08
880	672275.044	5390493.345	0.03	2	1.5	-1	5.85	15	21	3931	15	-0.9	-0.5	176.16	43	49.38
881	674131.797	5391954.971	0.04	3	-0.9	-1	6.12	21	28	6184	16	-0.9	-0.5	169.17	64	64.84
882	673844.161	5391443.845	0.04	1	N.M.	2	5.11	21	33	4476	22	N.M.	N.M.	208.42	54	65.59
883	663474.818	5402569.994	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
884	664909.74	5405571.91	0.04	1	-0.9	1	1.99	9	62	3196	9	1.3	-0.5	73.45	32	27.75
885	664370.903	5412514.891	0.04	NM	N.M.	NM	1.29	19	48	1053	8	N.M.	N.M.	52.24	46	81.91
886	664759.356	5413849.148	-0.02	2	N.M.	-1	1.76	9	19	1817	13	N.M.	N.M.	54.19	49	68.97
887	666274.861	5422404.946	-0.02	NM	N.M.	NM	2.34	36	13	4812	18	N.M.	N.M.	40.19	48	65.38
888	663388.819	5428294.027	0.06	NM	N.M.	NM	4.24	27	22	7291	19	N.M.	N.M.	60.37	87	60.54
889	661457.286	5431586.899	-0.02	3	N.M.	-1	3.05	16	12	14303	12	N.M.	N.M.	48.21	40	21.69
890	662232.198	5425891.576	-0.02	NM	N.M.	NM	2.54	25	13	10693	15	N.M.	N.M.	38.8	46	65.05
891	661630.628	5420666.881	-0.02	NM	N.M.	NM	1.8	17	10	4900	14	N.M.	N.M.	28.43	98	72.44
892	661103.61	5413489.322	-0.02	3	-0.9	-1	1.67	12	33	3952	10	-0.9	-0.5	125.98	36	44.77
893	660475.092	5415099.584	-0.02	2	N.M.	3	2.21	13	23	5309	11	N.M.	N.M.	95.78	44	61.67
894	661345.768	5415578.094	0.03	3	N.M.	-1	2.76	15	29	4769	11	N.M.	N.M.	83.39	49	68.93
895	662974.126	5416369.928	0.06	3	N.M.	-1	3.76	19	27	6942	13	N.M.	N.M.	92.43	54	65.2
896	664330.598	5416158.377	0.06	2	N.M.	2	3.31	14	39	3037	12	N.M.	N.M.	122.95	53	61.02
897	662961.386	5410843.398	-0.02	2	N.M.	2	1.54	9	18	2612	10	N.M.	N.M.	68.856	55	54.45
898	662482.594	5411112.283	-0.02	3	-0.9	-1	0.86	6	17	1367	5	-0.9	-0.5	69.26	51	58.29
899	664284.279	5408568.626	0.05	2	-0.9	-1	1.92	10	16	4748	8	-0.9	-0.5	93.31	32	58.84
900	661957.351	5407005.35	-0.02	3	N.M.	-1	1.54	9	30	3120	9	N.M.	N.M.	73.1	67	75.74
901	661287.259	5402690.266	0.03	3	N.M.	1	1.85	9	50	2305	10	N.M.	N.M.	64.94	72	68.1
902	662305.423	5400720.733	0.03	2	-0.9	2	2.16	6	41	2083	7	-0.9	-0.5	95.39	41	51.55
903	661745.694	5400854.883	-0.02	1	-0.9	5	3.67	14	13	6892	8	-0.9	-0.5	70.64	47	28.97
904	664414.184	5395836.369	-0.02	1	-0.9	-1	1.76	11	16	4461	6	-0.9	-0.5	44.63	25	29.01
905	664229.987	5396422.674	0.02	16	N.M.	3	2.53	22	34	12885	8	N.M.	N.M.	53.3	68	74.18
906	663729.434	5397269.196	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
907	664024.254	5397385.711	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
908	664321.578	5397729.217	-0.02	4	N.M.	2	1.61	10	28	2648	6	N.M.	N.M.	23.28	107	75.49
909	664580.858	5397995.789	0.03	8	-0.9	-1	2.68	19	35	22432	10	-0.9	-0.5	64.19	50	50.42
910	665041.751	5398963.248	0.04	8	N.M.	-1	2.04	13	61	5080	8	N.M.	N.M.	34.36	45	70.44
911	665090.461	5399913.976	0.08	7	-0.9	-1	7.74	30	44	15320	20	-0.9	-0.5	115.73	74	41.69
912	664882.956	5400625.204	0.05	3	N.M.	-1	5.57	21	27	9257	20	N.M.	N.M.	72.05	68	59.7
913	664646.721	5401084.222	0.05	3	-0.9	-1	7.07	33	27	16002	21	-0.9	-0.5	82.26	76	39.42
914	665974.071	5400128.731	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
915	668002.113	5395205.681	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
916	671275.55	5386658.511	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
917	670154.627	5389012.583	-0.02	1	-0.9	2	2.82	18	7	7192	10	-0.9	-0.5	69.2	20	4.45
918	670302.934	5390200.661	-0.02	2	-0.9	2	3.05	18	18	6792	12	-0.9	-0.5	47.85	35	31.21
919	669911.628	5390462.43	-0.02	4	N.M.	-1	1.66	9	25	2966	12	N.M.	N.M.	25.38	63	71.83
920	670508.55	5391423.414	-0.02	3	N.M.	4	5.16	30	25	10318	19	N.M.	N.M.	55.13	54	51.18
921	670402.618	5391766.242	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
922	671127.473	5392837.34	0.05	2	-0.9	-1	3.67	20	38	3926	17	-0.9	-0.5	62.71	55	42.74
923	670941.581	5395184.885	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
924	671842.815	5391946.049	0.13	3	-0.9	2	5.17	19	71	2859	16	-0.9	-0.5	234.65	37	54.62

Site	Easting	Northing	Ag	As	Au	Au	Co	Cr	Cu	Fe	Ni	Pd	Pt	Total	Zn	LOI
	NAD 27	Method---->	ICP-MS	INAA	FA	INAA	ICP-MS	ICP-OES	ICP-OES	ICP-OES	ICP-OES	FA	FA	REEs	ICP-OES	Grav
	UTM Zone 16	Units---->	ppm	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppb	ppb	La to Lu	ppm	%
		D. L.---->	0.02	1	0.9	1	0.05	4	5	5	5	0.9	0.5		2	0.05
925	672861.929	5392698.416	0.06	2	-0.9	1	3.15	18	49	2323	16	-0.9	-0.5	166.73	42	52.
926	673142.47	5391918.053	0.06	2	-0.9	-1	7.98	29	46	4314	25	-0.9	-0.5	243	65	66.4
927	673573.614	5392438.776	0.05	1	-0.9	-1	5.48	18	42	2737	20	-0.9	-0.5	143.71	47	61.5
928	671055.222	5386910.175	0.02	2	-0.9	-1	5.37	36	16	14594	19	-0.9	-0.5	126.76	45	10.3
929	669960.527	5385072.099	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
930	671417.296	5384713.38	0.07	3	-0.9	2	3.91	27	51	4681	17	-0.9	-0.5	206.77	49	45.5
931	672204.396	5383400.429	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
932	672078.968	5384160.355	0.04	2	-0.9	-1	1.98	20	31	2103	12	-0.9	-0.5	274.57	43	55.92
933	673184.077	5384126.856	0.05	3	N.M.	1	2.7	17	37	3018	16	N.M.	N.M.	109.77	52	53.06
934	673567.014	5384260.303	0.03	1	N.M.	4	5.04	28	16	7151	17	N.M.	N.M.	140.92	44	33.34
935	672723.533	5385921.251	-0.02	1	-0.9	-1	1.66	18	13	3254	9	-0.9	-0.5	67.88	32	27.06
936	673451.767	5387215.452	-0.02	2	-0.9	1	2.18	11	24	2074	14	-0.9	-0.5	101.83	42	59.04
937	665219.796	5391229.362	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
938	665549.9	5391333.741	-0.02	-1	-0.9	2	3.82	25	8	11234	12	-0.9	-0.5	75.62	30	14.59
939	665777.544	5391385.998	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
940	665966.045	5392866.961	-0.02	2	-0.9	1	0.65	7	-5	1586	-5	-0.9	-0.5	15.37	29	59.43
941	661695.916	5398913.979	0.07	4	-0.9	3	3.86	23	30	9409	12	-0.9	-0.5	144.9	58	40.55
942	661406.889	5399488.05	0.1	2	-0.9	2	2.56	10	16	2262	6	-0.9	-0.5	89.44	58	43.09
943	661820.802	5414631.289	0.08	3	-0.9	2	3.31	17	23	3449	11	-0.9	-0.5	155.96	62	68.3
944	662545.131	5414983.492	0.04	3	-0.9	3	4.32	12	20	3824	10	-0.9	-0.5	145.95	47	61.08
945	663072.489	5415457.463	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
946	663355.973	5415837.463	0.04	3	-0.9	3	6.01	16	11	13688	9	-0.9	-0.5	163.1	56	44.41
947	661140.829	5418509.239	0.03	3	N.M.	1	1.5	10	27	1526	10	N.M.	N.M.	74.76	48	64.78
948	662699.06	5427187.001	-0.02	NM	N.M.	NM	1.61	16	11	3142	10	N.M.	N.M.	20.74	59	81.36
949	662806.399	5413152.143	0.02	3	N.M.	1	3.96	13	13	3746	13	N.M.	N.M.	93.09	43	51.45
950	664572.723	5414656.608	0.03	2	N.M.	-1	2.54	12	21	3169	12	N.M.	N.M.	103.94	40	66.62
951	664378.914	5409759.862	0.08	1	N.M.	-1	1.42	10	19	1897	8	N.M.	N.M.	63.77	93	75.47
952	664488.019	5410637.994	0.09	3	N.M.	-1	2.22	12	26	3412	8	N.M.	N.M.	147	51	56.24
953	664052.35	5411211.147	-0.02	2	N.M.	-1	1.05	4	8	2130	-5	N.M.	N.M.	15.745	55	81.01
954	663226.972	5406705.094	-0.02	3	N.M.	-1	1.71	10	51	4941	11	N.M.	N.M.	29.02	51	33.07
955	663462.356	5407263.968	-0.02	4	-0.9	-1	3.63	14	20	12642	10	-0.9	-0.5	61.4	54	35.81
956	663136.749	5407945.206	-0.02	3	N.M.	-1	1.66	6	17	2140	7	N.M.	N.M.	39.94	64	68.11
957	663740.644	5408510.656	0.03	NM	N.M.	NM	2.98	7	19	1697	10	N.M.	N.M.	49.49	45	75.98
958	663637.47	5406053.572	0.06	2	N.M.	4	2.5	8	36	2357	7	N.M.	N.M.	83.58	55	65.35
959	662304.768	5405436.184	-0.02	3	N.M.	4	2.42	16	19	5766	11	N.M.	N.M.	63.71	78	60.76
960	658714.377	5400780.252	0.03	2	N.M.	1	1.63	11	21	1519	10	N.M.	N.M.	78.62	44	70.53
961	659351.565	5400333.961	0.02	2	N.M.	1	2.5	8	34	1892	11	N.M.	N.M.	68.21	51	58.18
962	659673.443	5400725.325	0.07	3	-0.9	2	4.31	9	39	2076	12	-0.9	-0.5	89.08	52	55.88
963	658981.071	5398544.047	0.12	2	-0.9	-1	5.32	10	57	2644	15	-0.9	-0.5	158.56	49	52.44
964	659399.285	5398415.94	0.06	NM	-0.9	NM	3.84	10	54	2489	16	-0.9	-0.5	132.5	50	53.62
965	658028.431	5392456.581	-0.02	NM	N.M.	NM	1.52	12	14	2248	8	N.M.	N.M.	27.83	33	59.13
966	657546.288	5392826.589	-0.02	4	N.M.	1	1.21	9	14	1884	5	N.M.	N.M.	16.71	57	70.27
967	657752.654	5393668.554	-0.02	11	-0.9	-1	2.51	13	28	94010	13	0.9	0.5	31.32	40	42.2
968	657431.964	5393942.188	-0.02	7	N.M.	3	1.41	10	21	1737	7	N.M.	N.M.	23.39	55	79.75
969	658004.981	5394253.789	0.03	4	-0.9	2	4.24	21	34	9352	11	-0.9	-0.5	94.68	54	32.47
970	658810.096	5395361.459	-0.02	3	N.M.	-1	2.33	23	13	3821	11	N.M.	N.M.	39.85	70	62.89
971	659188.943	5395848.534	0.02	2	-0.9	4	2.37	14	45	3701	24	-0.9	-0.5	101.02	43	47.36
972	659857.928	5397010.463	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
973	661622.875	5394829.647	-0.02	2	-0.9	2	3.4	17	17	5438	11	-0.9	-0.5	162.32	47	33.25
974	662161.316	5394964.028	0.03	1	-0.9	-1	3.97	19	24	6484	12	-0.9	-0.5	183.32	46	29.83
975	662672.718	5392773.674	-0.02	2	-0.9	1	1.3	10	43	1150	10	-0.9	-0.5	108.46	45	52.53
976	660102.825	5393380.54	0.02	2	N.M.	-1	2.32	11	19	1434	10	N.M.	N.M.	119	47	60.68
977	660442.417	5393065.77	0.06	2	-0.9	2	3.58	15	33	3109	12	-0.9	-0.5	167.85	54	59.4
978	661283.584	5392747.001	0.02	3	N.M.	1	2.17	14	34	3723	11	N.M.	N.M.	158.614	45	48.16
979	662309.573	5391127.833	0.07	1	-0.9	4	4.3	15	33	2567	11	-0.9	-0.5	312.99	42	56.71
980	659778.262	5391235.394	-0.02	1	-0.9	3	3.33	16	13	6534	9	-0.9	-0.5	84.48	30	17.48
981	660568.783	5391224.358	-0.02	2	-0.9	-1	2.42	12	41	2629	13	-0.9	-0.5	112.35	39	47.99
982	661070.814	5389982.939	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
983	661956.886	5389421.221	0.1	2	-0.9	1	4.01	18	38	4193	13	-0.9	-0.5	251.6	43	42.18
984	662679.459	5389862.903	0.26	2	-0.9	3	5.6	29	50	9470	16	-0.9	-0.5	583.69	56	41.41
985	664793.31	5386358.109	0.13	2	-0.9	-1	5.16	15	25	5274	13	-0.9	-0.5	194.7	47	49.03
986	665630.513	5386303.561	0.24	1	-0.9	2	6.6	23	28	9508	14	-0.9	-0.5	399.01	47	55.87
987	666384.693	5387499.138	0.09	1	-0.9	2	2.57	16	16	3050	15	-0.9	-0.5	154.49	30	37.33
988	668151.652	5388054.864	0.15	2	N.M.	1	5.28	22	29	8667	15	N.M.	N.M.	221.02	78	60.57
989	668814.605	5387211.666	0.19	1	-0.9	2	3.18	12	38	7256	14	-0.9	-0.5	231.97	74	60.19
990	665684.726	5383709.24	0.12	2	N.M.	5	3.67	17	28	2029	16	N.M.	N.M.	627.81	36	47.16

Site	Easting	Northing	Ag	As	Au	Au	Co	Cr	Cu	Fe	Ni	Pd	Pt	Total	Zn	LOI
	NAD 27	Method---->	ICP-MS	INAA	FA	INAA	ICP-MS	ICP-OES	ICP-OES	ICP-OES	ICP-OES	FA	FA	REEs	ICP-OES	Grav.
	UTM Zone 16	Units---->	ppm	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppb	ppb	La to Lu	ppm	%
		D. L.---->	0.02	1	0.9	1	0.05	4	5	5	5	0.9	0.5		2	0.05
991	666147.384	5384463.47	0.08	2	N.M.	2	4.94	12	18	2787	12	N.M.	N.M.	178.35	51	67.69
992	666520.541	5385614.029	0.07	1	-0.9	4	4.78	11	32	3953	12	-0.9	-0.5	307.03	44	35.02
993	667600.693	5386313.192	0.12	3	-0.9	-1	5.15	25	24	8077	15	-0.9	-0.5	339.62	53	60.62
994	667923.752	5387070.467	0.16	2	N.M.	5	7.12	18	32	4194	19	N.M.	N.M.	422.04	55	58.87
995	670066.332	5383269.025	0.11	2	-0.9	2	5.87	27	25	11299	14	-0.9	0.6	162.18	54	26.4
996	669635.118	5383877.113	0.08	2	N.M.	1	3.66	22	17	6570	15	N.M.	N.M.	53.04	59	59
997	664362.234	5385058.394	0.15	1	N.M.	2	4.28	17	42	5283	14	N.M.	N.M.	240.22	42	48.8
998	663083.255	5385419.585	0.07	3	N.M.	-1	1.78	9	20	1886	7	N.M.	N.M.	81.84	39	87.23
999	658418.396	5397218.887	0.1	1	-0.9	1	3.1	8	28	2962	12	-0.9	-0.5	64.23	46	65.12
1000	657810	5397325	0.13	2	-0.9	-1	3.25	10	23	2893	14	-0.9	-0.5	117.87	44	52.42
1001	662301.946	5405437.345	0.05	3	N.M.	-1	2.21	11	19	6020	9	N.M.	N.M.	61.85	77	60.84
1002	663370.017	5409195.667	0.09	2	-0.9	-1	1.71	7	15	2886	5	-0.9	-0.5	42.06	70	61.73
1003	663220.215	5411517.797	0.05	2	-0.9	1	1.57	8	15	1846	10	-0.9	-0.5	69.57	44	51.18
1004	662882.164	5427766.343	0.1	3	N.M.	-1	5.04	25	20	11748	16	N.M.	N.M.	71.1	67	37.61
1005	664006.943	5442185.378	0.04	17	9.4	2	3.57	14	7	49497	10	-0.9	-0.5	39.96	40	34.28
1006	664174.512	5445529.222	0.07	4	N.M.	-1	4.38	20	22	9886	15	N.M.	N.M.	65.04	53	46.84
1007	665458.825	5445646.397	0.05	3	N.M.	-1	2.08	14	23	6302	12	N.M.	N.M.	40.88	56	69.25
1008	667171.118	5447772.858	0.02	3	N.M.	-1	1.68	7	11	4598	8	N.M.	N.M.	17.31	27	29.11
1009	667736.705	5450666.783	0.05	4	N.M.	2	1.18	7	14	2887	8	N.M.	N.M.	16.39	65	83.06
1010	666898.846	5450754.541	0.05	4	-0.9	3	4.55	19	16	10914	14	-0.9	-0.5	46.04	68	37.97
1011	666699.893	5450183.161	0.04	3	-0.9	-1	2.49	10	10	6830	7	-0.9	-0.5	33.47	45	49.82
1012	667128.518	5449892.099	0.03	7	N.M.	-1	1.84	8	14	8203	11	N.M.	N.M.	22.25	79	66
1013	666480.586	5449647.337	0.04	4	-0.9	2	4.29	17	17	16850	14	1.3	-0.5	47.34	45	26.77
1014	665993.127	5448929.221	0.05	3	-0.9	2	4.05	25	19	24972	14	1.3	-0.5	48.07	36	25.51
1015	666270.793	5448705.975	0.07	3	N.M.	-1	3.88	20	18	5401	13	N.M.	N.M.	42.8	80	57.51
1016	665865.328	5447454.656	0.05	1	-0.9	3	2.52	15	11	4851	9	-0.9	-0.5	40.78	32	30.62
1017	664367.832	5450644.079	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1018	662038.86	5449732.174	0.05	4	-0.9	2	3.43	18	12	8556	13	-0.9	-0.5	50.85	32	22.81
1019	662902.69	5449003.916	0.03	3	-0.9	-1	1.91	8	12	5733	8	2.0	-0.5	18.78	26	15.65
1020	662137.276	5448442.025	0.09	3	-0.9	-1	1.08	5	10	3628	5	-0.9	-0.5	10.11	32	28.59
1021	663595.226	5446271.437	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1022	662194.153	5446000.926	0.04	4	N.M.	-1	3.43	17	11	12932	12	N.M.	N.M.	41.01	55	56.29
1023	662146.75	5443425.648	0.06	2	-0.9	1	4.31	22	16	11072	16	-0.9	-0.5	62.48	46	33.14
1024	663912.179	5443006.278	0.03	2	-0.9	-1	3.52	14	6	6557	9	-0.9	-0.5	42.58	44	19.98
1025	663116.148	5442346.789	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1026	661880.261	5442240.199	0.03	5	N.M.	-1	1.11	4	12	1382	6	N.M.	N.M.	10.22	57	90.22
1027	659639.679	5445954.808	0.05	7	N.M.	-1	3.46	17	20	22637	12	N.M.	N.M.	31.3	75	59
1028	659612.318	5444774.326	0.03	4	N.M.	4	0.82	6	10	5736	8	N.M.	N.M.	11.875	75	84.34
1029	660018.873	5443297.65	-0.02	2	-0.9	-1	1.46	7	6	5491	6	-0.9	-0.5	11.97	15	8.82
1030	662528.551	5439176.798	-0.02	4	N.M.	-1	0.98	6	-5	8555	-5	N.M.	N.M.	6.565	12	23
1031	661880.642	5438891.493	0.03	6	N.M.	-1	1.26	9	11	6220	8	N.M.	N.M.	22.69	63	69.22
1032	661676.775	5438488.322	0.04	6	N.M.	-1	1.76	15	14	7219	10	N.M.	N.M.	25.21	57	71.42
1033	660949.621	5437688.281	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1034	661529.179	5437116.731	0.06	4	-0.9	-1	2.75	17	20	4506	10	-0.9	-0.5	37.9	57	67.26
1035	662625.133	5438115.769	0.05	5	N.M.	-1	2.85	17	21	3817	11	N.M.	N.M.	34.94	51	60.22

Notes: Geochemical results below detection limit are indicated with minus (-) sign; ICP-OES=Inductively Coupled Plasma-Optical Emission Spectroscopy; ICP-MS = Inductively Coupled Plasma-Mass Spectroscopy; INAA=Instrumental Neutron Activation Analysis; FA=Fire Assay
D.L.=detection limit; NM=Not measured; QC=Quality control problem; NS=No sample

Metric Conversion Table

Conversion from SI to Imperial			Conversion from Imperial to SI		
SI Unit	*Multiplied by*	*Gives*	*Imperial Unit*	*Multiplied by*	*Gives*
		LENGTH			
1 mm	0.039 37	inches	1 inch	**25.4**	mm
1 cm	0.393 70	inches	1 inch	**2.54**	cm
1 m	3.280 84	feet	1 foot	**0.304 8**	m
1 m	0.049 709	chains	1 chain	20.116 8	m
1 km	0.621 371	miles (statute)	1 mile (statute)	**1.609 344**	km
		AREA			
1 cm^2	0.155 0	square inches	1 square inch	**6.451 6**	cm^2
1 m^2	10.763 9	square feet	1 square foot	**0.092 903 04**	m^2
1 km^2	0.386 10	square miles	1 square mile	2.589 988	km^2
1 ha	2.471 054	acres	1 acre	0.404 685 6	ha
		VOLUME			
1 cm^3	0.061 023	cubic inches	1 cubic inch	**16.387 064**	cm^3
1 m^3	35.314 7	cubic feet	1 cubic foot	0.028 316 85	m^3
1 m^3	1.307 951	cubic yards	1 cubic yard	0.764 554 86	m^3
		CAPACITY			
1 L	1.759 755	pints	1 pint	0.568 261	L
1 L	0.879 877	quarts	1 quart	1.136 522	L
1 L	0.219 969	gallons	1 gallon	**4.546 090**	L
		MASS			
1 g	0.035 273 962	ounces (avdp)	1 ounce (avdp)	28.349 523	g
1 g	0.032 150 747	ounces (troy)	1 ounce (troy)	**31.103 476 8**	g
1 kg	2.204 622 6	pounds (avdp)	1 pound (avdp)	**0.453 592 37**	kg
1 kg	0.001 102 3	tons (short)	1 ton (short)	**907.184 74**	kg
1 t	1.102 311 3	tons (short)	1 ton (short)	**0.907 184 74**	t
1 kg	0.000 984 21	tons (long)	1 ton (long)	**1016.046 908 8**	kg
1 t	0.984 206 5	tons (long)	1 ton (long)	**1.016 046 90**	t
		CONCENTRATION			
1 g/t	0.029 166 6	ounce (troy)/ ton (short)	1 ounce (troy)/ ton (short)	34.285 714 2	g/t
1 g/t	0.583 333 33	pennyweights/ ton (short)	1 pennyweight/ ton (short)	1.714 285 7	g/t

OTHER USEFUL CONVERSION FACTORS

	Multiplied by	
1 ounce (troy) per ton (short)	31.103 477	grams per ton (short)
1 gram per ton (short)	0.032 151	ounces (troy) per ton (short)
1 ounce (troy) per ton (short)	20.0	pennyweights per ton (short)
1 pennyweight per ton (short)	0.05	ounces (troy) per ton (short)

Note: Conversion factors which are in bold type are exact. The conversion factors have been taken from or have been derived from factors given in the Metric Practice Guide for the Canadian Mining and Metallurgical Industries, published by the Mining Association of Canada in co-operation with the Coal Association of Canada.

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